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ABSTRACT

This paper compiles the 1977 to 1978 academic library statistics and rank order tables from 105 members of the Association of Research Libraries (ARL) in the areas of collections, interlibrary loans, expenditures, personnel, microform holdings, and university enrollments and doctorate information. Review of the ARL statistics for 1978 indicates three basic trends: (1) Since 1976 the allocation of the total academic library budget between materials and personnel has remained constant--typically 58 percent of the budget has been used for salaries and wages, and approximately 30 percent has been used for materials. (2) Inflation continues to erode the capability of ARL libraries to provide materials and services. Compared to 1977, 1978 materials expenditures in ARL academic libraries rose 10.7 percent, although volumes added increased by only .3 percent, and the number of current serials increased by only 3.5 percent. (3) While there was a 10.7 percent increase in expenditures for salaries between 1977 and 1978, the number of staff in ARL academic libraries increased by only 1.7 percent. Instructions for completion of the questionnaire that was used to collect the data and footnotes are included. (CWM)

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ARL STATISTICS

1977-78

**A COMPILATION OF STATISTICS
FROM THE ONE HUNDRED AND FIVE MEMBERS OF THE
ASSOCIATION OF RESEARCH LIBRARIES**

Compiled by
Suzanne Frankie

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**Association of Research Libraries
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Washington, D. C. 20036
1978**

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INTRODUCTION

A review of the ARL Statistics for 1978 indicates that the theme of the seventies continues for another year.

- Since 1976 the allocation of the total academic library budget between materials and personnel has remained constant: typically 58% of the budget has been used for salaries and wages, and approximately 30% has been used for materials.

- Inflation continues to erode the capabilty of ARL libraries to provide materials and services. Compared to 1977, in 1978 materials expenditures in ARL academic libraries rose 10.7%, although volumes added increased by only .3%, and the number of current serials increased by only 3.5%.

- Similarly, while there was a 10.7% increase in expenditures for salaries between 1977 and 1978, the number of staff in ARL academic libraries increased by only 1.7%.

As these trends continue, it is becoming increasingly clear that new ways must be found to use limited resources to maximum effect. It is to be hoped that current efforts to develop viable national library programs will be successful.

Information is our most important resource. Creating a national library and information system will enable us to more effectively disseminate information, thereby insuring that the supply of this national resource will not only be preserved, but in being shared, will be both increased and enriched.

Suzanne O. Frankie
ARL Associate Executive Director

December 15, 1978

GUIDE TO LIBRARY CODE NUMBERS

The institutions listed below are the 105 institutions which were members of the ARL in 1978. Each has been assigned a code number which has been used on the charts on pages 6-15 in place of the names of the institutions. (See columns labelled "Library Code No." to the left of columns 1 and 12). Numbers 1-94 have been used to designate the 94 university library members of the Association. Number 95-105 designate the 11 non-university members.

1. Alabama
2. Alberta
3. Arizona
4. Arizona State
5. Boston
6. Brigham Young
7. British Columbia
8. Brown
9. Calif., Berkeley
10. Calif., Davis
11. Calif., Los Angeles
12. Calif., San Diego
13. Calif., Santa Barbara
14 Case Western Reserve
15. Chicago
16. Cincinnati
17. Colorado
18. Colorado State
19. Columbia
20. Connecticut
21. Cornell
22. Dartmouth
23. Duke
24. Emory
25. Florida
26. Florida State
27. Georgetown
28. Georgia
29. Harvard
30. Hawaii
31. Houston
32. Howard
33. Illinois
34. Indiana
35. Iowa
36. Iowa State
37. Johns Hopkins
38. Joint University
39. Kansas
40. Kent State
41. Kentucky
42. Louisiana State
43. McGill
44. McMaster
45. Maryland
46. Massachusetts
47. MIT
48. Miami
49. Michigan
50. Michigan State
51. Minnesota
52. Missouri
53. Nebraska
54. New York
55. North Carolina
56. Northwestern
57. Notre Dame
58. Ohio State
59. Oklahoma
60. Oklahoma State
61. Oregon
62. Pennsylvania
63. Pennsylvania State
64. Pittsburgh
65. Princeton
66. Purdue
67. Queen's
68. Rice
69. Rochester
70. Rutgers
71. South Carolina
72. Southern California
73. Southern Illinois
74. Stanford
75. SUNY-Albany
76. SUNY-Buffalo
77. SUNY-Stony Brook
78. Syracuse
79. Temple
80. Tennessee
81. Texas
82. Texas A & M
83. Toronto
84. Tulane
85. Utah
86. Virginia
87. Virginia Polytechnic
88. Washington
89. Washington State
90. Washington Univ., St. Louis
91. Wayne State
92. Western Ontario
93. Wisconsin
94. Yale
*95. Boston Public
*96. Center for Research Libraries
*97. John Crerar Library
*98. Library of Congress
*99. Linda Hall Library
*100. National Agricultural Library
*101. National Library of Canada
*102. National Library of Medicine
*103. New York Public Library
*104. New York State Library
*105. Smithsonian Institution

*Nonuniversity Library.

ASSOCIATION OF RESEARCH LIBRARIES

ACADEMIC LIBRARY STATISTICS

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (Net)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
1•*CL	1,170,365	40,486	38,771	656,868	12,562	1,711	1,778	3,489	1,304	1,338	2,642
2•CLM	1,891,064	88,358	83,264	1,276,961	15,175	2,761	4,467	7,228	2,260	3,059	5,319
3 C	2,088,328	136,620	133,132	1,034,090	16,766	3,567	3,601	7,168	1,315	931	2,246
4 C	1,330,515	83,792	67,567	907,186	15,020	3,169	2,144	5,313	3,040	2,610	5,650
5 •LM	1,265,366	47,043	41,397	944,416	21,692	1,102	2,827	3,929	3,303	3,278	6,581
6 •*C	1,471,814	66,291	62,265	662,845	17,367	2,702	1,077	3,779	1,461	1,531	2,992
7•CLM	1,941,783	100,301	90,403	2,000,964	19,739	11,453	11,705	23,158	3,243	3,549	6,792
8 •CM	1,595,341	39,467	37,208	545,595	13,606	1,592	2,589	4,181	932	407	1,339
9 CL	5,035,753	142,783	118,423	1,196,206	97,978	16,767	14,976	31,743	5,484	3,214	8,698
10 LM	1,454,495	76,585	72,715	1,250,565	40,499	6,458	16,273	22,731	3,166	2,236	5,402
11•CLM	3,993,223	129,673	116,134	1,630,845	57,881	15,278	43,009	58,287	5,006	1,634	6,640
12 CM	1,284,058	64,191	59,262	618,406	25,278	5,168	9,489	14,657	3,204	2,386	5,590
13 C	1,275,311	50,091	39,853	1,270,493	18,096	1,279	1,315	2,594	3,919	4,283	8,202
14•*CLM	1,613,427	27,210	21,506	277,511	13,955	13,206	22,592	35,798	2,308	2,690	4,998
15•CLM	4,019,470	144,349	133,340	609,676	43,563	4,415	21,147	25,562	3,110	3,480	6,590
16 •LM	1,276,837	58,953	46,409	879,197	16,021	5,818	6,402	12,220	2,376	4,352	7,514
17 CL	1,761,631	49,667	44,262	1,807,649	11,255	4,499	5,060	9,559	2,997	2,514	5,511
18 C	1,130,959	57,257	46,229	401,863	16,420	2,723	5,462	8,185	1,812	2,215	4,027
19 CLM	4,832,691	126,679	101,165	1,937,368	58,897	5,670	10,246	15,916	N/A	N/A	8,360
20 LM	1,642,162	91,798	84,961	993,488	19,165	5,815	12,637	18,452	3,055	4,244	7,299
21 LM	4,095,234	122,417	114,314	1,278,561	50,980	7,687	16,035	25,722	2,302	3,763	6,065
22 •CM	1,265,196	26,597	24,503	638,024	15,944	3,819	3,518	7,337	1,143	1,586	2,729
23 CLM	2,944,733	78,227	75,175	293,129	33,979	9,428	13,868	23,296	1,790	1,779	3,569

• - See Footnotes
* - Bibliographic Count
‡ - Fringe Benefits Included in Salaries and Wages

C - Includes figures for main campus only
L - Includes Law Library
M - Includes Medical Library

N/A - Figures not available

ASSOCIATION OF RESEARCH LIBRARIES

ACADEMIC LIBRARY STATISTICS

LIBRARY CODE NO.	EXPENDITURES							PERSONNEL			
	LIBRARY MATERIALS	CURRENT PERIODICALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF FTE	NON-PROF. STAFF FTE	STUDENT ASSTS. FTE	TOTAL STAFF FTE
	12	12.5	13	14	15	16	17	18	19	20	21
1	905,914	432,653	53,338	959,252	1,146,149	197,481	2,300,882	41	60	57	158
2	2,166,605	766,684	165,688	2,332,293	4,747,922	778,884	7,859,099	80	289	28	397
3	1,964,024	579,482	186,379	2,150,403	2,041,252	350,745	4,542,400	61	128	60	249
4	1,439,587	560,547	91,960	1,531,547	1,798,175	266,985	3,596,707	40	108	75	223
5	1,034,293	623,679	71,126	1,105,419	2,099,251	259,733	3,459,403	60	129	83	232
6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	54	59	112	225
7	2,473,368	1,147,000	177,253	2,650,621	6,303,582	518,360	9,472,563	98	303	50	451
8	837,880	353,295	92,098	929,978	1,627,498	152,369	2,709,845	47	93	41	181
9	2,471,036	1,103,905	282,314	2,753,350	9,555,629	1,193,657	13,502,631	154	282	207	643
10	1,885,000	710,000	193,000	2,078,000	3,731,000	493,000	6,302,000	63	159	64	286
11	2,765,897	428,752	317,991	3,144,887	7,818,873	1,350,000	12,313,760	162	268	107	537
12	1,486,390	624,094	189,246	1,675,636	3,114,841	523,197	5,313,674	54	147	49	250
13	1,436,989	600,000	122,207	1,559,196	3,179,022	312,977	5,051,195	96	142	72	270
14	836,006	635,248	64,611	900,617	1,717,117	382,562	3,000,296	58	99	32	189
15	1,357,048	740,781	148,133	1,505,181	3,326,184	483,964	5,315,329	78	156	78	312
16	1,058,146	600,562	63,966	1,122,112	2,280,473	285,053	3,647,638	63	145	50	258
17	901,698	466,731	60,000	961,698	2,097,574	150,091	3,209,363	40	102	95	237
18	766,879	484,689	74,902	841,781	1,388,924	231,826	2,462,531	40	79	15	134
19	2,064,341	1,209,338	181,891	2,246,232	5,178,442	395,599	7,816,273	137	281	96	514
20	1,386,770	631,767	74,863	1,461,633	2,103,367	235,936	3,800,936	67	77	60	204
21	2,337,368	N/A	183,655	2,521,023	4,995,804	911,511	8,428,338	127	260	54	441
22	1,030,284	596,224	37,456	1,067,740	1,341,741	325,530	2,735,011	31	97	17	145
23	1,614,610	916,976	128,333	1,742,943	2,876,740	332,989	4,952,681	88	161	58	307

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						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (GROSS)	VOLUMES ADDED (NET)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
24 *LM	1,531,620	64,460	59,390	774,360	14,128	4,235	8,822	13,057	2,034	2,201	4,235
25*CLM	1,943,750	93,653	90,909	1,060,394	16,258	2,808	15,604	18,412	1,439	6,521	8,160
26 *CL	1,266,258	60,037	54,384	1,643,529	12,758	6,864	6,038	8,882	1,720	502	2,822
27 *LM	1,127,614	47,397	41,090	158,575	16,564	1,990	5,253	5,253	1,219	2,548	4,193
28 CL	1,811,235	92,057	92,057	1,430,459	21,253	11,315	8,068	19,383	4,173	2,545	6,718
29*CLM	9,753,214	255,581	205,838	1,753,894	95,000	6,162	60,000	66,162	4,100	8,000	12,100
30 *C	1,660,532	69,871	63,394	1,023,206	20,217	1,812	6,029	7,841	819	1,823	2,742
31 *L	1,501,343	97,273	96,366	1,801,293	17,882	2,768	3,484	5,252	2,217	2,155	4,372
32 LM	1,012,493	64,175	60,274	734,484	8,238	1,180	1,283	2,463	599	537	1,136
33 *CL	5,622,938	151,581	128,152	1,268,595	31,913	24,293	18,816	43,259	2,841	1,815	4,656
34 *LM	4,604,395	221,780	195,679	1,403,955	42,389	13,902	13,344	27,246	6,988	5,795	12,183
35 CLM	2,136,899	89,905	81,218	1,271,858	26,215	5,832	11,263	17,195	3,713	3,787	6,548
36 C	1,248,822	69,588	67,871	902,413	18,405	3,722	8,440	12,162	1,483	1,958	3,621
37 M	2,218,933	62,930	56,158	1,248,635	14,913	N/A	N/A	11,758	N/A	N/A	10,760
38 CLM	1,405,293	45,848	34,294	914,103	15,218	3,881	7,469	6,354	2,469	2,198	4,667
39 *LM	1,995,890	74,670	70,185	829,281	27,481	13,354	10,218	23,572	4,382	1,821	6,403
40 C	1,245,350	57,489	55,973	558,189	19,127	4,588	1,111	5,875	2,012	1,825	3,837
41 CLM	1,706,453	90,200	68,233	1,721,831	21,837	5,444	7,552	10,996	2,174	2,115	4,289
42*CLM	1,758,334	52,755	48,795	158,262	16,183	3,861	2,681	6,538	3,147	3,391	6,538
43 *LM	1,861,078	78,230	75,404	368,362	16,627	9,799	20,961	30,255	4,035	2,330	6,365
44 CM	900,199	57,856	56,483	871,299	10,524	3,166	3,305	6,471	3,295	3,512	7,207
45 *C	1,283,127	62,539	51,587	1,119,828	16,640	N/A	N/A	5,874	N/A	N/A	3,668
46 C	1,587,653	70,991	56,803	643,447	16,612	5,294	4,380	7,674	2,674	1,965	4,639

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ASSOCIATION OF RESEARCH LIBRARIES

ACADEMIC LIBRARY STATISTICS

LIBRARY CODE NO.	EXPENDITURES							PERSONNEL			
	12	12.5	13	14	17	18	19*	08	09	20	21
24	1,284,242	173,277	83,525	1,357,767	1,833,705	282,384	3,338,856	51	83	37	164
25	3,227,220	452,87[illegible]	273,382	3,713,602	2,866,358	216,305	6,285,867	76	118	62	256
26	2,636,183	501,243	61,629	3,202,210	1,286,226	107,102	4,740,886	47	92	27	170
27	1,372,826	436,278	75,264	1,747,664	2,666,670	462,188	5,211,229	51	87	72	210
28	1,241,262	1,121,263	108,659	2,127,644	2,146,758	107,268	4,216,869	62	108	26	256
29	3,366,240	1,161,281	436,273	4,666,219	8,279,229	1,267,190	15,268,225	294	322	134	860
30	1,273,847	193,222	96,429	1,271,272	2,228,262	257,266	4,182,211	62	94	63	219
31	2,[illegible]56,217	736,479	86,246	1,886,762	1,966,282	126,466	4,126,266	62	161	72	293
32	1,227,876	466,662	62,251	1,267,727	2,427,962	761,426	4,667,264	56	151	72	279
33	2,217,227	1,211,216	166,221	2,476,228	4,268,262	186,216	7,126,726	116	262	102	346
34	2,267,864	1,268,712	172,422	3,126,276	5,262,862	1,482,422	9,868,168	168	286	276	672
35	2,227,226	677,227	182,262	2,726,248	2,826,267	168,816	5,668,661	76	176	56	296
36	1,666,221	722,761	162,424	1,722,262	1,826,276	117,667	3,727,268	66	173	66	306
37	1,236,276	276,262	62,224	1,286,682	2,262,228	766,216	4,266,226	62	126	32	226
38	1,176,268	N/A	77,262	1,762,761	1,862,726	726,[illegible]	3,666,766	57	166	62	226
39	1,226,761	626,262	62,276	1,626,776	2,267,262	626,716	4,266,226	71	122	56	256
40	262,262	216,276	62,662	626,272	1,286,677	262,622	2,466,766	26	72	26	126
41	1,668,276	276,662	162,426	1,276,262	2,266,726	366,226	3,666,262	66	166	52	226
42	1,276,226	626,222	86,262	1,162,266	1,866,262	226,266	3,276,662	52	82	56	166
43	1,166,162	862,266	126,262	1,686,226	3,166,262	262,126	5,166,262	76	266	86	362
44	1,276,262	262,276	66,666	1,266,262	2,262,726	266,866	4,166,276	66	162	76	246
45	1,676,666	862,666	126,126	1,626,766	3,266,866	126,226	5,662,662	82	262	76	362
46	862,266	276,262	62,262	862,266	2,166,866	122,862	3,126,662	46	126	46	226

* = Not Included
* = Bibliographic Count
\$ = Private Benefits Included in Salaries

† = Includes Figures for Main Campus Only
‡ = Excludes Law Library
# = Include National Library

N/A = Figures not available

ASSOCIATION OF RESEARCH LIBRARIES

ACADEMIC LIBRARY STATISTICS

	VOLUMES HELD	VOLUMES ADDED GROSS	VOLUMES ADDED GIFT	VOLUMES WITHDRAWN	VOLUMES HELD	EXPENDITURES FOR LIBRARY MATERIALS	EXPENDITURES FOR SALARIES AND WAGES	OTHER	EXPENDITURES FOR BINDING	EXPENDITURES FOR SERVICES	OTHER
	1	2	3	4	5	6	7	8	9	10	11
[illegible]	1,709,797	66,974	35,307	150,736	18,212	3,282	11,070	14,351	1,400	1,781	3,181
[illegible]	1,054,281	40,200	26,638	520,287	11,800	2,942	6,196	9,138	1,491	2,285	3,776
[illegible]	5,044,531	125,301	67,364	1,341,338	51,208	11,539	11,882	23,421	4,228	600	4,828
[illegible]	2,427,895	84,459	61,230	1,220,362	24,378	6,879	21,282	28,161	2,200	1,780	4,000
[illegible]	3,823,461	123,408	113,675	1,208,198	38,240	33,438	98,810	128,248	2,868	11,364	14,232
[illegible]	1,878,232	40,218	46,838	1,365,768	16,888	7,239	8,338	15,854	1,837	1,797	3,648
[illegible]	1,384,427	68,824	62,364	556,681	21,721	3,766	3,780	6,980	1,139	1,829	2,868
[illegible]	2,197,168	110,847	91,498	1,210,837	16,228	5,280	6,140	11,828	2,868	3,168	6,037
[illegible]	2,373,584	104,062	66,615	1,284,232	31,972	8,341	11,538	19,879	2,021	2,780	5,201
[illegible]	2,833,440	70,267	56,708	726,147	28,358	3,272	5,858	9,188	2,000	2,240	4,240
[illegible]	1,346,830	27,189	31,438	628,725	11,538	932	2,868	3,841	868	868	1,736
[illegible]	5,371,119	125,830	113,764	1,138,219	30,480	11,852	16,328	28,180	4,890	1,217	7,062
[illegible]	1,886,317	48,891	40,268	847,748	14,284	14,153	14,948	28,948	4,850	4,351	9,062
[illegible]	1,210,408	30,780	24,378	786,351	9,878	2,808	3,248	6,121	1,878	1,258	3,328
[illegible]	1,877,290	38,218	33,467	843,218	21,284	6,728	1,818	8,838	3,861	1,838	5,898
[illegible]	2,821,384	78,798	68,826	1,321,882	28,248	3,288	8,828	16,328	2,738	3,818	6,748
[illegible]	2,327,812	83,388	70,118	1,378,281	20,738	7,882	9,188	16,888	2,878	2,818	5,898
[illegible]	2,281,880	122,988	108,218	1,344,412	21,888	10,880	18,898	29,878	3,328	3,838	6,768
[illegible]	3,891,321	180,128	181,882	1,138,758	30,718	3,788	3,882	6,858	1,838	1,888	3,728
[illegible]	1,317,778	68,318	61,838	823,281	17,862	2,278	8,828	10,878	2,328	2,888	5,288
[illegible]	1,288,248	60,718	63,737	688,388	14,438	2,132	2,788	5,828	1,887	1,888	3,788
[illegible]	881,585	28,888	37,818	1,071,188	8,318	3,878	2,878	5,888	868	918	1,888
[illegible]	1,781,888	58,888	63,888	1,813,888	12,888	8,888	11,888	18,888	2,888	2,888	5,888

a = See Footnotes
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† = Includes Figures for Main Campus only
‖ = Includes Law Library
= Includes Medical Library

(N/A = Figures not available)

ASSOCIATION OF RESEARCH LIBRARIES

ACADEMIC LIBRARY STATISTICS

ASSOCIATION OF RESEARCH LIBRARIES

ASSOCIATION OF RESEARCH LIBRARIES

ACADEMIC LIBRARY STATISTICS

	EXPENDITURES							PERSONNEL			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT PERIODICALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF FTE	NON-PROF. STAFF FTE	STUDENT ASSTS. FTE	TOTAL STAFF FTE
	12	12.5	13	14	15	16	17	18	19	20	21
70	2,410,860	1,148,552	175,285	2,586,145	4,527,159	870,009	7,987,102	103	273	90	466
71	1,381,334	590,562	106,886	1,488,220	1,638,183	181,704	3,312,107	55	102	40	197
72	1,624,934	858,298	107,312	1,732,246	2,753,779	373,194	4,859,619	79	129	86	294
73	1,399,161	947,952	117,001	1,516,162	2,546,292	460,730	4,523,184	66	118	82	266
74	3,144,830	1,383,081	305,075	3,449,711	5,521,295	1,258,102	10,229,108	130	281	74	485
75	971,000	657,446	37,316	1,008,316	1,735,699	224,114	2,968,729	50	100	18	168
76	1,256,181	818,959	107,999	1,364,186	2,657,467	445,925	4,467,578	101	142	46	289
77	1,150,815	531,270	68,500	1,219,315	1,915,015	285,184	3,420,554	85	116	25	186
78	1,062,611	615,415	70,967	1,133,578	1,778,021	328,421	3,220,020	59	139	63	261
79	1,198,435	811,581	84,359	1,282,795	2,153,308	180,502	3,616,605	78	131	95	304
80	1,320,460	911,179	84,327	1,404,685	1,861,543	312,910	3,589,199	53	146	31	230
81	3,239,868	1,473,047	123,000	3,362,868	4,778,439	503,727	8,645,034	123	320	73	516
82	1,285,239	758,500	75,000	1,360,239	1,557,876	231,153	3,149,268	86	108	06	200
83	2,863,255	1,168,163	174,383	3,037,638	9,564,371	1,184,121	13,786,130	175	550	70	795
84	784,559	497,000	84,631	869,184	1,907,142	179,156	2,955,482	42	85	32	159
85	1,075,511	605,665	59,774	1,135,287	1,816,516	335,880	3,287,683	46	93	64	203
86	2,417,737	1,529,612	153,070	2,570,807	2,891,959	600,757	6,063,523	76	184	54	314
87	1,727,487	535,000	132,920	1,860,607	1,804,965	266,934	3,932,406	55	103	32	190
88	2,884,980	2,001,812	237,660	3,122,640	4,791,579	550,056	7,436,275	101	269	100	485
89	1,137,433	798,666	84,380	1,221,819	2,191,086	410,160	3,817,065	53	126	50	231
90	1,185,231	716,000	82,405	1,267,636	1,877,191	439,245	3,784,072	50	132	36	218
91	1,251,261	585,537	81,570	1,332,160	2,677,151	712,991	4,625,302	56	98	53	227
92	1,671,390	917,098	138,676	1,766,066	3,653,527	681,501	5,895,595	65	250	33	353

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N/A = Figures not available

ASSOCIATION OF RESEARCH LIBRARIES

ACADEMIC LIBRARY STATISTICS

LIBRARY CODE NO.	COLLECTIONS					INTERLIBRARY LOANS					
						LOANED			BORROWED		
	VOLUMES IN LIBRARY	VOLUMES ADDED (Gross)	VOLUMES ADDED (Net)	TOTAL MICROFORM UNITS IN LIBRARY	CURRENT SERIALS	ORIGINALS	PHOTOCOPIES	TOTAL	ORIGINALS	PHOTOCOPIES	TOTAL
	1	2	3	4	5	6	7	8	9	10	11
93CLM	3,351,900	122,815	113,748	1,551,838	50,184	35,791	66,789	102,580	11,837	10,021	21,858
94** CLM	7,072,345	182,703	167,782	1,090,057	60,675	4,844	6,045	10,889	4,996	954	5,950
95	2,472,684	295,391	236,320	1,601,999	16,211	18,640	1,540	20,180	190	N/A	198
96	1,260,930	81,177	81,177	758,657	13,792	20,691	N/A	20,691	N/A	N/A	N/A
97 •	1,193,281	18,928	18,897	418,913	10,933	21,229	27,664	48,893	273	N/A	273
98	10,[illegible]	337,795	318,177	1,226,532	N/A	202,534	14,647	217,181	1,279	N/A	1,279
99	459,139	20,585	20,502	561,710	15,371	28,215	51,466	79,681	2	48	50
100	1,832,945	37,990	36,390	268,850	28,000	2,141	23,804	25,945	N/A	N/A	14,007
101 •	959,742	42,416	28,181	781,689	15,799	29,838	8,193	33,030	609	131	740
102 •	1,488,929	54,127	48,958	67,126	22,249	18,537	183,724	202,261	28	7	35
103 •	4,966,658	97,951	97,727	1,389,960	152,206	1,226	5,130	6,356	658	498	1,156
104	1,872,587	35,883	35,452	1,585,000	29,000	31,250	N/A	N/A	201	2,210	2,411
105 •	836,403	23,140	22,401	N/A	14,000	7,000	18,071	25,071	14,048	26,476	40,519
Univ. Median	1,707,693	71,726	66,010	1,080,581	19,146	N/A	N/A	11,373	N/A	N/A	5,044
Mi- Univ.	9,753,214	255,085	205,638	2,680,676	97,978	35,791	98,612	128,048	11,837	11,804	21,858
Lo- Univ.	670,369	28,597	21,504	277,511	8,030	432	1,077	2,441	599	407	1,196
TOTALS - UNIVERSITY LIBRARIES											
	206,539,808	6,054,573	7,157,724	106,302,450	2,425,680	573,877	[illegible]	1,668,872	[illegible]	238,717	528,203

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ASSOCIATION OF RESEARCH LIBRARIES

ACADEMIC LIBRARY STATISTICS

	EXPENDITURES							PERSONNEL			
LIBRARY CODE NO.	LIBRARY MATERIALS	CURRENT PERIODICALS	BINDING	TOTAL MATERIALS & BINDING	TOTAL SALARIES & WAGES	OTHER OPERATING EXPENDITURES	TOTAL LIBRARY OPERATING EXPENDITURES	PROF. STAFF FTE	NON-PROF. STAFF FTE	STUDENT ASSTS. FTE	TOTAL STAFF FTE
	12	12.5	13	14	15	16	17	18	19	20	21
93	2,202,407	1,317,891	144,959	2,347,366	4,543,518	726,880	7,617,764	112	225	116	453
94	2,821,033	1,078,098	212,871	3,033,904	6,402,127	1,280,367	10,716,398	172	400	42	614
95	2,301,520	413,883	N/A	2,301,520	6,351,095	1,563,742	10,216,357	178	371	67	616
96	470,715	115,110	N/A	470,715	598,181	373,578	1,447,474	16	31	12	59
97	263,136	248,782	11,598	274,734	656,378	937,589	1,868,701	27	53	4	84
98	N/A	N/A	N/A	N/A	N/A	N/A	N/A	3,712	1,518	N/A	5,230
99	602,484	469,010	42,086	644,570	417,013	130,430	1,192,013	17	18	20	55
100	864,000	588,000	158,000	1,022,000	3,268,000	2,428,000	6,718,000	76	89	N/A	165
101	954,600	80,000	35,000	989,600	7,695,095	2,047,880	10,732,575	234	235	N/A	469
102	1,425,000	780,000	140,000	1,565,000	4,172,000	1,994,000	8,102,000	124	112	9	245
103	2,397,000	N/A	550,000	2,947,000	12,450,000	3,542,000	18,939,000	178	580	112	870
104	754,890	553,579	88,430	843,320	2,103,210	821,386	3,767,916	75	112	38	225
105	502,779	198,441	80,000	582,779	1,450,980	341,660	2,375,419	42	62	N/A	104
Univ. Median	1,400,931	713,139	96,238	1,516,162	2,505,320	366,335	4,467,578	62	131	54	250
Hi-Univ.	3,569,946	1,561,385	430,273	4,000,219	9,564,371	1,997,786	14,568,225	244	550	219	865
Lo-Univ.	543,812	211,577	36,543	605,292	889,599	117,667	1,832,609	26	52	7	92
TOTALS - UNIVERSITY LIBRARIES											
	147,150,732	5,254,785	11,069,931	158,220,872	281,621,647	43,933,72[illegible]	48[illegible],776,253	7,265	15,015	5,607	27,883

^ - See Footnotes
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UNIVERSITY STATISTICS *

INSTITUTION	Ph.D's Awarded	Ph.D Fields	ENROLLMENTS - FALL 1977			
			A. Total Full-time	B. Full-time Graduate	C. Total FTE Part-time	D. Part-time Graduate FTE
Alabama	80	27	13,628	1,402	1,554	926
Alberta	133	37	19,464	2,003	3,494	683
Arizona	236	47	21,309	2,833	3,039	1,558
Arizona State	120	25	23,277	2,080	4,737	1,216
Boston	99	26	16,748	3,116	2,555	1,101
Brigham Young	269	14	22,879	1,573	2,817	355
British Columbia	125	45	20,203	2,120	1,091	294
Brown	127	33	5,308	1,265	184	177
Calif., Berkeley	827	92	26,027	8,403	2,329	574
Calif., Davis.	207	49	17,298	4,782	33	15
Calif., Los Angeles	420	58	30,763	7,963	N/A	N/A
Calif., San Diego	145	30	9,832	1,425	463	42
Calif., Santa Barbara	134	28	13,998	1,759	310	38
Case Western Reserve	162	37	6,241	1,801	622	531
Chicago	380	55	7,711	4,227	1,643	1,272
Cincinnati	122	36	23,877	2,646	4,684	462
Colorado	239	43	19,202	2,326	1,023	359
Colorado State	142	33	16,271	1,853	777	182
Columbia	404	51	4,821	6,447	327	886
Connecticut	191	82	16,974	3,298	1,885	755
Cornell	461	72	17,035	3,835	N/A	N/A
Dartmouth	26	7	3,486	675	43	49
Duke	169	31	8,825	1,704	361	304
Emory	90	21	7,572	898	6,974	466
Florida	272	47	24,057	3,079	2,818	428
Florida State	300	65	16,059	2,272	2,138	397
Georgetown	70	26	9,610	1,056	954	370
Georgia	206	73	18,755	1,936	1,817	438
Harvard	425	41	15,271	6,250	1,941	123
Hawaii	127	32	15,929	1,952	2,007	531
Houston	76	24	19,896	2,212	5,256	2,712
Howard	33	23	8,076	1,177	606	276
Illinois	N/A	75	34,502	8,432	N/A	N/A
Indiana	301	79	44,245	5,118	12,268	3,129
Iowa	297	54	18,026	3,054	1,999	1,048
Iowa State	208	85	20,121	1,928	1,366	765
Johns Hopkins	169	36	4,169	1,672	4,916	2,107
Joint University	212	47	8,287	1,487	704	372
Kansas	223	55	17,567	2,173	2,140	971
Kent State	109	14	14,995	1,617	1,519	492
Kentucky	137	47	17,719	1,761	1,457	529
Louisiana State	111	50	20,874	1,881	1,776	807
McGill	160	60	N/A	N/A	N/A	N/A
McMaster	83	24	10,248	1,126	3,678	206
Maryland	334	60	28,349	2,789	N/A	N/A
Massachusetts	211	45	21,000	2,204	806	474
MIT	425	26	8,359	3,893	353	33

*Unofficial figures. To be verified.
N/A = Not Available.

UNIVERSITY STATISTICS *

INSTITUTION	Ph.D's Awarded	Ph.D Fields	ENROLLMENTS - FALL 1977*			
			A. Total Full-time	B. Full-time Graduate	C. Total FTE Part-time	D. Part-time Graduate FTE
Miami	71	27	10,720	984	1,531	693
Michigan	635	111	30,644	7,080	2,354	1,373
Michigan State	436	127	36,125	3,667	N/A	N/A
Minnesota	494	86	38,377	8,033	9,324	915
Missouri	205	58	20,316	2,429	1,124	935
Nebraska	179	42	17,472	1,491	2,016	654
New York	437	91	15,237	4,747	5,696	4,611
North Carolina	305	51	17,322	2,632	1,259	650
Northwestern	295	54	11,509	4,662	1,271	486
Notre Dame	91	23	8,682	1,486	232	235
Ohio State	599	83	44,764	6,097	1,696	764
Oklahoma	163	45	18,207	3,082	2,297	3,034
Oklahoma State	128	35	19,033	1,394	1,083	457
Oregon	161	34	13,970	2,284	903	180
Pennsylvania	325	99	17,300	5,609	1,789	513
Pennsylvania State	303	90	48,786	3,798	4,494	641
Pittsburgh	368	91	21,112	3,333	5,557	2,152
Princeton	224	51	5,937	1,501	N/A	N/A
Purdue	383	52	26,752	3,653	1,109	625
Queen's	57	26	10,341	931	689	178
Rice	81	25	2,686	926	N/A	N/A
Rochester	145	46	6,300	1,616	569	383
Rutgers	243	49	31,785	4,175	5,753	3,059
South Carolina	149	42	16,250	2,486	2,376	1,632
Southern California	470	52	17,106	2,445	4,166	3,256
Southern Illinois	166	20	19,076	1,005	1,775	1,214
Stanford	476	71	11,692	5,203	N/A	N/A
SUNY- Albany	71	9	10,875	1,658	1,035	597
SUNY - Buffalo	290	53	14,791	2,856	3,416	3,065
SUNY - Stony Brook	138	63	12,625	2,351	1,638	1,183
Syracuse	219	102	13,556	2,192	2,083	1,217
Temple	151	82	19,880	1,711	16,459	4,412
Tennessee	172	40	22,968	3,785	2,854	1,193
Texas	450	42	36,419	6,204	2,565	639
Texas A & M	242	64	25,816	2,678	3,017	1,252
Toronto	343	65	31,408	4,810	4,000	1,221
Tulane	68	29	9,463	3,611	1,044	852
Utah	161	60	16,271	2,418	5,609	2,082
Virginia	169	42	6,769	2,806	9,575	1,880
Virginia Polytechnic	104	43	17,791	1,835	992	691
Washington	310	64	28,664	5,492	3,697	790
Washington State	142	31	14,107	1,562	182	274
Wash. Univ., St. Louis	109	29	7,279	1,660	1,228	304
Wayne State	190	43	21,707	3,503	12,573	2,845
Western Ontario	87	23	13,938	1,524	2,250	200
Wisconsin	663	129	32,150	6,982	N/A	N/A
Yale	309	47	5,098	4,368	N/A	N/A

*Unofficial figures. To be verified.
N/A = Not Available.

ANALYSIS OF MICROFORM HOLDINGS

INSTITUTION	REELS OF MICROFILM	NUMBER OF MICROCARDS	NUMBER OF MICRO-PRINT SHEETS	NUMBER OF MICROFICHES
Alabama	59,835	51,436	417,689	127,908
Alberta	71,106	154,518	506,571	544,766
Arizona	58,762	N/A	N/A	822,960
Arizona State	53,544	115,930	176,330	561,382
Boston	36,218	27,382	576,414	304,402
Brigham Young	37,966	50,980	167,651	406,248
British Columbia	57,513	111,976	986,750	844,725
Brown	21,639	523,956	N/A	N/A
Calif., Berkeley	164,843	166,712	124,223	740,428
Calif., Davis.	55,803	206,668	316,979	671,115
Calif., Los Angeles	108,754	N/A	N/A	N/A
Calif., San Diego	12,134	83,177	N/A	523,095
Calif., Santa Barbara	30,898	91,546	163,088	984,961
Case Western Reserve	16,694	84,166	N/A	176,651
Chicago	71,098	15,894	74,471	448,213
Cincinnati	44,043	15,686	133,001	686,467
Colorado	38,363	125,642	202,800	1,440,844
Colorado State	20,790	14,756	2,749	363,568
Columbia	116,056	194,761	537,156	1,089,395
Connecticut	49,207	29,330	458,160	461,791
Cornell	84,923	139,793	822,612	731,233
Dartmouth	N/A	N/A	N/A	N/A
Duke	N/A	N/A	N/A	N/A
Emory	25,463	N/A	N/A	N/A
Florida	97,905	210,847	189,759	562,478
Florida State	99,484	247,455	422,211	874,379
Georgetown	18,589	47,044	255,608	237,274
Georgia	94,804	114,462	446,062	775,131
Harvard	142,533	86,680	655,526	869,155
Hawaii	69,695	127,587	228,768	597,156
Houston	88,100	64,242	170,869	1,476,882
Howard	19,425	54,703	N/A	630,356
Illinois	140,125	84,540	235,821	808,029
Indiana	114,939	115,870	249,304	923,342
Iowa	78,308	95,701	176,237	921,612
Iowa State	25,553	6,396	185,013	685,491
Johns Hopkins	37,234	N/A	N/A	447,873
Joint University	20,281	N/A	N/A	509,141
Kansas	45,820	68,544	220,383	494,534
Kent State	46,073	N/A	N/A	N/A
Kentucky	84,133	272,548	363,966	1,000,184
Louisiana State	80,106	140,382	40,607	337,165
McGill	27,400	N/A	N/A	178,913
McMaster	40,095	73,681	203,937	607,381
Maryland	62,688	N/A	N/A	N/A
Massachusetts	72,925	3,702	5,965	560,855
MIT	12,211	137,670	N/A	632,855
Miami	22,678	N/A	N/A	N/A
Michigan	108,155	N/A	N/A	N/A
Michigan State	101,880	N/A	273,152	N/A
Minnesota	77,649	113,769	478,690	638,288
Missouri	N/A	N/A	N/A	N/A
Nebraska	35,036	33,826	177,219	323,010

N/A = Not Available

ANALYSIS OF MICROFORM HOLDINGS

INSTITUTION	REELS OF MICROFILM	NUMBER OF MICROCARDS	NUMBER OF MICRO-PRINT SHEETS	NUMBER OF MICROFICHES
New York	63,369	321,712	323,180	705,546
North Carolina	82,017	71,067	557,948	533,600
Northwestern	37,731	110,566	55,912	524,928
Notre Dame	24,942	N/A	N/A	382,636
Ohio State	73,243	61,547	397,354	663,870
Oklahoma	19,094	106,059	120,293	601,703
Oklahoma State	24,758	66,047	247,951	450,595
Oregon	38,162	96,278	266,587	202,510
Pennsylvania	63,072	97,698	665,850	495,372
Pennsylvania State	153,995	N/A	290,367	N/A
Pittsburgh	54,740	96,872	470,438	422,403
Princeton	73,175	186,029	366,027	571,525
Purdue	27,986	148,408	N/A	746,851
Queen's	40,899	354,732	N/A	291,257
Rice	29,852	133,993	499,022	408,238
Rochester	29,000	171,000	639,000	614,000
Rutgers	35,021	102,753	470,683	578,428
South Carolina	64,116	168,148	482,389	743,428
Southern California	28,758	170,080	639,179	302,387
Southern Illinois	91,796	143,794	1,097,167	361,254
Stanford	103,093	N/A	N/A	N/A
SUNY- Albany	205,992	28,601	437,190	787,319
SUNY - Buffalo	40,444	180,957	533,854	504,587
SUNY - Stony Brook	45,546	136,287	652,251	569,007
Syracuse	36,773	239,110	717,912	709,588
Temple	45,477	225,032	125,775	323,383
Tennessee	50,075	N/A	N/A	N/A
Texas	92,603	132,700	543,864	1,046,974
Texas A & M	31,872	96,000	215,472	747,136
Toronto	54,423	56,627	818,977	216,852
Tulane	35,028	155,928	147,392	460,067
Utah	N/A	N/A	N/A	N/A
Virginia	75,264	178,864	281,819	1,539,658
Virginia Polytechnic	52,500	N/A	N/A	940,696
Washington	85,098	N/A	N/A	1,916,195
Washington State	63,390	183,461	550,904	682,935
Wash. Univ., St. Louis	25,730	25,301	175,625	569,256
Wayne State	36,885	55,346	49,300	494,334
Western Ontario	37,739	22,614	405,878	511,376
Wisconsin	43,698	134,015	92,838	1,281,287
Yale	90,890	314,619	383,270	301,278
*Boston Public	87,852	11,861	1,080,000	422,286
*Center for Research Libs.	230,547	N/A	238,560	N/A
*John Crerar Library	5,929	80,000	332,984	N/A
*Library of Congress	954,079	460,485	N/A	1,811,968
*Linda Hall Library	10,293	84,613	N/A	466,804
*National Agricultural Lib.	11,000	620	53,000	204,230
*National Library of Canada	60,231	13,032	433,145	275,281
*National Lib. of Medicine	25,734	N/A	N/A	41,392
*New York Public Library	180,606	N/A	N/A	271,706
*New York State Library	75,000	160,000	550,000	800,000
*Smithsonian Institution	N/A	N/A	N/A	N/A

*Nonuniversity Library
N/A = Not Available

ANALYSIS OF SELECTED VARIABLES OF UNIVERSITY LIBRARIES

The percentages and ratios below are intended to supplement the basic data in our statistical charts. The high, median, and low figures indicate the range as well as the midpoint for ARL's 94 university library members.

Category	High	Median	Low
1. Professional Staff as percent of Total Staff	41	26	17
2. Nonprofessional Staff as percent of Total Staff	74	53	26
3. Student Assistant Staff as percent of Total Staff	30	20	7
4. Ratio of Professional to Nonprofessional Staff (excluding student assistants)	1:1	0.5:1	0.24:1
5. Ratio of Items Loaned to Items Borrowed	24:1	2.4:1	.3:1
6. Materials Expenditures as percent of Total Expenditures	62	30	18
7. Salary Expenditures as percent of Total Expenditures	71	57	33
8. Ratio of Salary Expenditures to Materials Expenditures	3.9:1	1.8:1	0.5:1

Among other things, these figures illustrate the advantages of using median figures when there is a wide dispersion in a distribution. Because of the characteristic of the mean as a "balance point," a few very high or low scores may sometimes pull the mean away from the actual point at which values cluster. As the measure of central tentency which focuses on the midpoint in a distribution, medians are thus much preferable for our purposes.

All of this is by way of emphasizing again the need for exercising great care in using the quantitative data presented here to make qualitative evaluations of library programs and services. In all cases in a number of significant ways these evaluations must be judged on the basis of an institution's local needs and characteristics which are based on other nonquantitative information.

RANK ORDER TABLES

FOR ALL ARL UNIVERSITY LIBRARIES

1977-78

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents for each university library its rankings in each of the categories for which rank order tables are prepared. In addition to these rankings, note that in the individual rank order tables on the following pages group codes are used. This is done because in a number of cases there is a relatively insignificant difference between two institutions (which are nevertheless given two different rankings), and it was decided that a "coarser" ranking of institutions was desirable. Therefore, in addition to the individual rankings, institutions are clustered into groups according to ranges.

The table numbers in the chart below refer to the following categories:

Table 1 - Volumes in Library
Table 2 - Volumes Added (Gross)
Table 3 - Total Microform Holdings
Table 4 - Current Serials
Table 5 - Professional Staff (FTE)
Table 6 - Nonprofessional Staff (FTE)
Table 7 - Total Staff (FTE)
Table 8 - Materials Expenditures
Table 9 - Materials & Binding Expenditures
Table 10 - Salaries & Wages Expenditures
Table 11 - Total Expenditures
Table 12 - Total Items Loaned
Table 13 - Total Items Borrowed
Table 14 - Current Periodical Expenditures

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Alabama	84	86	78	85	86	91	88	83	84	91	89	91	87	82
Alberta	36	35	31	70	29	7	19	18	18	17	13	70	43	40
Arizona	29	12	52	59	49	52	48	24	23	60	44	70	90	64
Arizona State	69	36	62	71	87	62	61	44	45	71	62	82	37	71
Boston	77	81	58	39	50	49	51	75	75	58	67	87	26	56
Brigham Young	61	56	77	57	64	92	58	94	94	94	94	89	81	N/A
British Columbia	34	24	3	46	23	6	14	10	11	6	8	23	21	12
Brown	54	87	90	81	76	78	81	85	85	79	86	86	92	90
Calif., Berkeley	5	11	40	1	8	9	4	11	10	2	3	8	8	14
Calif., Davis	62	43	36	16	45	32	36	28	27	22	23	24	42	47
Calif., Los Angeles	13	13	17	7	6	12	7	9	6	4	4	5	25	83
Calif., San Diego	72	59	83	30	64	38	47	40	36	33	32	38	37	55
Calif., Santa Barbara	75	75	33	54	59	42	39	46	44	32	36	92	11	61
Case Western Reserve	52	92	94	79	56	73	78	86	86	76	82	7	48	52
Chicago	12	10	84	13	32	34	29	52	48	28	31	17	26	43
Cincinnati	74	65	64	67	45	40	44	73	73	49	60	44	14	60
Colorado	42	76	8	89	83	70	76	84	83	57	79	54	40	79
Colorado State	87	68	91	64	87	90	93	90	89	86	87	63	64	78
Columbia	6	14	5	6	10	10	10	21	21	11	15	34	10	9
Connecticut	51	32	56	47	40	88	67	49	53	56	57	29	15	53
Cornell	11	20	10	9	13	15	15	14	14	13	11	19	35	N/A
Dartmouth	78	93	80	68	92	75	90	77	78	87	85	69	83	62

N/A = Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Duke	19	40	93	19	25	29	30	34	32	35	37	21	73	22
Emory	58	58	72	77	70	85	86	58	59	80	77	42	59	67
Florida	33	29	49	64	34	55	45	2	2	38	22	33	26	81
Florida State	76	64	16	83	57	80	83	6	9	81	41	59	87	24
Georgetown	88	80	88	62	78	81	66	72	71	82	61	83	62	77
Georgia	39	31	24	20	47	33	43	25	24	54	40	27	24	13
Harvard	1	1	11	2	1	2	1	1	1	3	1	4	5	1
Hawaii	53	50	53	23	47	77	62	57	56	43	50	65	83	69
Houston	59	25	9	58	50	29	33	29	29	59	46	83	62	37
Howard	91	59	75	94	24	36	38	61	63	40	42	93	94	85
Illinois	3	8	34	3	2	18	8	15	15	14	14	6	51	8
Indiana	7	3	26	14	5	8	3	5	5	9	7	13	4	4
Iowa	28	34	32	29	34	61	50	22	22	41	35	10	29	18
Iowa State	80	51	63	52	77	59	67	47	49	63	65	44	75	45
Johns Hopkins	27	62	50	72	50	47	60	60	60	50	49	47	6	39
Joint University	63	82	61	69	57	60	55	68	68	84	69	78	51	N/A
Kansas	32	45	66	26	39	54	46	26	29	48	48	20	7	59
Kent State	81	67	89	47	93	89	91	93	93	89	91	80	65	91
Kentucky	48	33	13	31	41	65	58	42	42	61	54	48	51	25
Louisiana State	47	74	86	62	69	86	75	70	70	68	75	74	29	49
McGill	38	40	92	60	30	12	28	35	35	12	19	9	20	30
McMaster	92	66	59	90	89	29	63	39	43	51	51	77	16	72
Maryland	73	63	45	60	28	25	26	61	60	27	29	52	75	14
Massachusetts	56	48	79	75	50	66	65	87	87	55	81	67	51	65
MIT	45	57	71	51	50	44	53	82	82	52	68	37	79	58
Miami	79	84	67	87	72	62	72	81	80	75	76	74	71	70
Michigan	4	15	27	8	7	5	6	16	16	7	9	21	51	6
Michigan State	23	28	54	34	37	58	37	37	37	36	39	15	61	38
Minnesota	14	17	35	17	11	27	17	25	25	10	16	1	2	15
Missouri	35	69	6	45	59	67	72	54	55	77	66	31	69	28
Nebraska	65	52	87	39	61	68	70	45	46	73	64	56	65	42
New York	22	21	25	49	38	24	35	38	38	30	33	68	38	75
North Carolina	24	23	37	21	19	26	25	19	20	29	25	26	45	89
Northwestern	21	49	73	25	16	37	26	51	50	23	21	57	51	26
Notre Dame	68	90	82	88	90	82	89	89	90	90	90	93	91	87
Ohio State	16	16	41	24	26	22	21	31	34	21	24	16	18	31

N/A = Not available

INSTITUTION	TABLES													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Oklahoma	49	78	65	76	77	84	83	76	77	85	84	11	9	14
Oklahoma State	83	91	70	91	91	94	92	92	92	92	93	79	80	88
Oregon	66	88	85	42	81	86	80	79	79	82	74	60	50	80
Pennsylvania	20	44	29	28	27	35	31	55	52	28	30	39	39	44
Pennsylvania State	31	37	4	36	19	12	16	27	28	20	20	32	47	29
Pittsburgh	25	18	51	37	9	49	23	43	41	31	34	10	23	30
Princeton	18	5	39	22	22	21	22	23	25	25	27	73	83	19
Purdue	67	79	60	56	84	40	56	65	65	67	53	45	48	46
Queen's	71	83	76	77	75	28	48	70	76	46	59	85	43	66
Rice	93	93	48	93	94	92	94	91	91	93	92	80	93	84
Rochester	57	71	23	86	64	75	82	69	69	64	71	35	31	38
Rutgers	30	22	38	35	18	20	18	13	12	19	12	16	65	11
South Carolina	50	27	22	65	61	70	76	50	51	78	72	61	67	63
Southern California	37	38	46	33	30	49	32	32	33	37	38	70	76	27
Southern Illinois	55	70	15	37	61	55	45	48	47	45	45	18	33	20
Stanford	8	9	12	11	12	10	11	4	3	8	6	28	69	3
SUNY- Albany	94	76	21	72	72	72	85	80	81	74	83	52	2	51
SUNY - Buffalo	41	53	35	50	21	42	34	59	57	39	47	35	37	32
SUNY - Stony Brook	89	72	27	83	81	57	79	66	67	65	70	57	57	76
Syracuse	44	39	14	42	55	45	42	76	76	72	78	68	71	57
Temple	60	53	74	80	32	47	61	63	62	66	52	62	68	33
Tennessee	64	59	42	32	67	39	53	53	54	67	63	46	76	23
Texas	9	2	7	5	14	4	9	3	4	16	10	40	13	2
Texas A & M	85	47	46	18	77	42	70	56	58	83	80	25	18	61
Toronto	10	4	43	15	3	1	2	7	7	1	2	61	16	10
Tulane	78	89	68	92	84	82	87	88	88	88	88	42	12	76
Utah	39	25	30	53	77	78	69	71	72	69	73	63	21	86
Virginia	26	30	2	66	36	23	28	12	13	34	26	56	86	17
Virginia Polytechnic	90	42	19	61	61	68	77	30	30	70	55	74	78	73
Washington	15	7	1	12	15	17	11	20	19	15	18	2	38	7
Washington State	86	85	20	27	67	52	52	67	66	53	54	30	82	35
Washington, St. Louis	46	73	69	74	72	46	63	64	63	66	58	51	41	47
Wayne State	43	55	81	82	41	74	56	62	61	42	43	12	89	68
Western Ontario	82	46	17	14	44	14	24	33	31	24	28	85	59	21
Wisconsin	17	19	18	10	11	19	13	17	17	18	17	3	1	5
Yale	2	6	47	9	4	3	5	8	8	5	5	49	36	15

[illegible] (in millions of [illegible])

The groupings of institutions below is [illegible] because it is a matter of [illegible] to a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, in order to provide a "cleaner" ranking, the institutions are clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1=	over $1,000	5=	$ 500-599
2=	$ 900-999	6=	$ 400-499
3=	$ 800-899	7=	$ 300-399
4=	$ 700-799	8=	$ 200-299
5=	$ 600-699	9=	$ 100-199
6=	$ 500-599	10=	under $100

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	$1,721,214		26	Washington, St. Louis	$ 748,658
					27	Louisiana State	$ 748,228
1	2	Yale	$ 721,345		28	Kentucky	$ 748,052
					29	Brigham	$ 698,847
	3	Columbia	$ 697,638		30	South Carolina	$ 653,389
1	4	Michigan	$ 696,567		31	Connecticut	$ 650,765
	5	SUNY - Berkeley	$ 638,712		32	Case Western Reserve	$ 615,347
					33	Emory	$ 600,718
	6	Columbia	$ 512,897		34	Iowa	$ 599,347
	7	Indiana	$ 509,345		35	Southern California	$ 599,345
	8	Stanford	$ 497,723		36	Pennsylvania	$ 597,453
2	9	Texas	$ 459,341		37	Rochester	$ 592,694
	10	Toronto	$ 452,211		38	Emory	$ 713,459
	11	Cornell	$ 395,178		39	Houston	$ 597,382
	12	Chicago	$ 372,379		40	Temple	$ 591,245
					41	Brigham Young	$ 577,814
	13	SUNY - Los Angeles	$ 365,223		42	California, Davis	$ 563,249
	14	Minnesota	$ 323,967		43	Utah Polytechnic	$ 562,293
	15	Washington	$ 321,838		44	Tennessee	$ 559,297
3	16	Ohio State	$ 317,214		45	Colorado	$ 556,347
	17	Wisconsin	$ 311,899		46	Oregon	$ 547,299
	18	Princeton	$ 307,343		47	Purdue	$ 547,775
					48	Notre Dame	$ 544,654
	19	Duke	$ 299,773		49	Arizona State	$ 538,214
	20	Pennsylvania	$ 297,369	4	50	Tulane	$ 538,745
	21	Northwestern	$ 295,998		51	Kentucky	$ 488,698
	22	Bay Area	$ 287,168		52	SUNY - San Diego	$ 485,498
	23	Michigan State	$ 287,088		53	Maryland	$ 481,137
	24	North Carolina	$ 271,709		54	Cincinnati	$ 479,853
3	25	Pittsburgh	$ 265,485		55	SUNY - Santa Barbara	$ 479,141
	26	Virginia	$ 237,814		56	Florida State	$ 468,338
	27	Johns Hopkins	$ 238,303		57	Dallas	$ 465,358
	28	Iowa	$ 236,864		58	Vanderbilt	$ 462,148
	29	Illinois	$ 233,128		59	Miami	$ 459,381
	30	Rutgers	$ 231,211		60	Iowa State	$ 448,822
	31	Pennsylvania State	$ 227,412		61	Kent State	$ 447,344
					62	Montana Catholic	$ 437,837
	32	Kansas	$ 222,358		63	Oklahoma State	$ 414,468
	33	Florida	$ 221,723		64	Alabama	$ 413,351
	34	British Columbia	$ 217,772		65	Texas A & M	$ 412,288
	35	Missouri	$ 216,234		66	Washington State	$ 411,288
	36	Alberta	$ 211,654		67	Colorado State	$ 410,878
	37	Southern California	$ 208,141		68	Georgetown	$ 407,214
	38	McGill	$ 201,278		69	SUNY-Stony Brook	$ 403,238
4	39	Utah	$ 211,277		70	Virginia Polytechnic	$ 399,599
	40	Georgia	$ 211,238		71	Kansas	$ 315,463
	41	SUNY-Buffalo	$ 210,218				
	42	Colorado	$ 207,217				
	43	Wayne State	$ 202,787		72	Arkansas	$ 391,748
	44	Syracuse	$ 201,213	5	73	Rice	$ 387,295
	45	MIT	$ 200,787		74	SUNY - Albany	$ 378,324

NAME INDEX TABLE 1: VOLUMES 41001-43000

The groupings of individuals below in some instances is a matter of mere convenience and does not indicate any connection between the individuals, which are listed in strictly alphabetical order. Nevertheless, an effort to provide a "context" for each individual has sometimes been made.

The ranges for the groups below are:

1: 41001-41200 and 41901-42000
2: 41201-41400
3: 41401-41600
4: 41601-41800
5: 41801-41900

6: 42001-42100
7: 42101-42200
8: 42201-42300
9: 42301-42400
10: 42401-42500
11: 42501-42600
12: 42601-42700
13: 42701-42800
14: 42801-42900
15: 42901-43000

Gp	Name	Identification	Notes
1	1	Abrahams	41001,4095
2	2	Adams	41002,2116
	3	Addleton	41003,4988
	4	Ainsley	41004,1441
3	5	Alexandrov	41005,1438
	6	Allen	41006,4513
	7	Anderssen	41007,4502
9	8	Ashford	41008,4055
	9	Atwater	41009,4004
	10	Aylesbury	41010,4006
	11	Ayliff, Barbara	41011,4001
	12	Bailey	41012,2119
	13	Ayliff, Lee Angela	41013,2141
1	14	Baldwin	41014,2142
	15	Blackman	41015,4017
	16	Bliss Ryan	41016,2138
	17	Bradbury	41017,4002
	18	Brassington	41018,4004
	19	Brookside	41019,2131
	20	Cohen	41020,2117
	21	Day Dyer	41021,4007
	22	Dungeon	41022,1418
	23	Earle Hamilton	41023,4003
	24	Ellison Kingdom	41024,2111
	25	Engle	41025,4008
8	26	Engelson	41026,2112
	27	Evans Hamilton	41027,2122
	28	Ferguson Myers	41028,4003
	29	Fields	41029,2121
	30	Fingerson	41030,2148
	31	Fleming	41031,4007
	32	Fletcher	41032,2108
	33	Fredericks	41033,4005
	34	Gage	41034,2005
	35	Gilmartin	41035,2114
	36	Gladstone Hyde	41036,2123
	37	Gordon Myers	41037,4004
	38	Grant	41038,4006
	39	Greenwood	41039,4009
	40	Hamilton	41040,2110
	41	Hanover Myers	41041,2132
	42	Harrison Hyde	41042,2124
	43	Hawkins	41043,2125
	44	Hayes	41044,2126
	45	Henderson Ferguson	41045,2127
	46	Hendricks, Harry	41046,2128
	47	Hendrickson	41047,2129
	48	Hickman	41048,2130

Gp	Name	Identification	Notes
	49	Hill-Lake Shopping	41049,2131
	50	Hilton Grant	41050,2132
	51	Hodgkinson	41051,2133
	52	Holbrook	41052,2134
	53	Holmes	41053,2135
	54	Howard	41054,2136
	55	Hughes	41055,2137
	56	Hunter Hyde	41056,2138
	57	Jackson	41057,2139
	58	Jefferson	41058,2140
	59	Johnson	41059,2141
	60	Jones Kingdom	41060,2142
	61	Kelly Lake	41061,2143
	62	Kingdom	41062,2144
	63	Lake Shopping	41063,2145
	64	Lawrence	41064,2146
	65	Lee Hamilton	41065,2147
	66	Lewis	41066,2148
	67	Lincoln Citizens	41067,2149
	68	Mackenzie	41068,2150
	69	Madison Hyde	41069,2151
	70	Marshall	41070,2152
	71	Martin Myers	41071,2153
	72	Mason	41072,2154
	73	Mayfield	41073,2155
	74	Mayfield Myers	41074,2156
	75	Mayfield Shopping	41075,2157
	76	Miller	41076,2158
	77	Mitchell	41077,2159
	78	Moore	41078,2160
	79	Morgan	41079,2161
	80	Morrison	41080,2162
	81	Nelson	41081,2163
	82	Newton	41082,2164
	83	Nicholson	41083,2165
	84	Norton	41084,2166
	85	Oliver	41085,2167
	86	Owens	41086,2168
	87	Palmer	41087,2169
	88	Parker	41088,2170
	89	Patterson	41089,2171
	90	Peterson	41090,2172
	91	Phillips	41091,2173
	92	Pierce	41092,2174
	93	Porter	41093,2175
	94	Powell	41094,2176
	95	Price	41095,2177
	96	Quinn	41096,2178
	97	Reed	41097,2179
	98	Reynolds	41098,2180
	99	Richardson	41099,2181
	100	Roberts	41100,2182
	101	Robinson	41101,2183
	102	Rogers	41102,2184
	103	Ross	41103,2185
	104	Russell	41104,2186
	105	Sanders	41105,2187
	106	Scott	41106,2188
	107	Shaw	41107,2189
	108	Simpson	41108,2190
	109	Smith	41109,2191
	110	Stevens	41110,2192
	111	Stewart	41111,2193
	112	Taylor	41112,2194
	113	Thomas	41113,2195
	114	Thompson	41114,2196
	115	Turner	41115,2197
	116	Underwood	41116,2198
	117	Vance	41117,2199
	118	Walker	41118,2200
	119	Wallace	41119,2201
	120	Ward	41120,2202
	121	Watson	41121,2203
	122	Webb	41122,2204
	123	Wells	41123,2205
	124	White	41124,2206
	125	Williams	41125,2207
	126	Wilson	41126,2208
	127	Wood	41127,2209
	128	Wright	41128,2210
	129	Young	41129,2211
	130	Zimmerman	41130,2212

RARE ORDER TABLE 3: MICROFORM HOLDINGS

The groupings of institutions below is done because in a number of cases there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, in order to provide a "coarser" ranking, the institutions are clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 1,600,000 and over
2- 1,400,000-1,599,999
3- 1,200,000-1,399,999
4- 1,000,000-1,199,999
5- 800,000-999,999
6- 600,000-799,999
7- 400,000-599,999
8- 200,000-399,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
	1	Washington	2,480,676		49	Florida	1,060,989
	2	Virginia	2,075,605		50	Johns Hopkins	1,046,636
	3	British Columbia	2,000,964		51	Pittsburgh	1,044,453
	4	Pennsylvania State	1,978,651	4	52	Arizona	1,034,090
	5	Columbia	1,937,368		53	Hawaii	1,023,206
	6	Missouri	1,909,706		54	Michigan State	1,020,962
	7	Texas	1,816,141		55	Minnesota	1,008,396
	8	Colorado	1,807,649				
1	9	Houston	1,800,093		56	Connecticut	998,488
	10	Cornell	1,778,561		57	Western Ontario	977,607
	11	Harvard	1,753,894		58	Boston	944,416
	12	Stanford	1,726,497		59	McMaster	925,094
	13	Kentucky	1,720,831		60	Purdue	92[illegible],245
	14	Syracuse	1,703,383	5	61	Joint University	91[illegible],103
	15	Southern Illinois	1,694,011		62	Arizona State	917,186
	16	Florida State	1,645,529		63	Iowa State	912,453
	17	Calif., Los Angeles	1,630,845		64	Cincinnati	879,197
					65	Oklahoma	847,149
	18	Wisconsin	1,551,898		66	Kansas	829,281
	19	Virginia Polytechnic	1,544,388		67	Miami	822,087
	20	Washington State	1,480,690				
	21	SUNY - Albany	1,459,102		68	Tulane	798,415
	22	South Carolina	1,458,081		69	Washington, St. Louis	795,912
2	23	North Dakota	1,453,000		70	Oklahoma State	789,351
	24	Georgia	1,430,459		71	MIT	782,736
	25	New York	1,410,807		72	Emory	774,060
	26	Indiana	1,403,455		73	Northwestern	729,147
	27	Michigan	1,403,096		74	Temple	719,667
	27	SUNY - Stony Brook	1,403,091	6	75	Howard	704,484
					76	Queen's	686,888
	29	Pennsylvania	1,321,952		77	Brigham Young	662,845
	30	Utah	1,280,848		78	Alabama	656,868
	31	Alberta	1,276,961		79	Massachusetts	643,447
	32	Iowa	1,271,818		80	Dartmouth	638,024
3	33	Calif., Santa Barbara	1,270,493		81	Wayne State	635,865
	34	Illinois	1,268,515		82	Notre Dame	628,725
	35	SUNY - Buffalo	1,259,842		83	California, San Diego	618,406
	36	Calif., Davis	1,250,585		84	Chicago	609,676
	37	North Carolina	1,244,432		85	Oregon	603,537
	38	Rutgers	1,236,885				
					86	Louisiana State	598,260
	39	Princeton	1,196,756		87	Nebraska	589,091
	40	California, Berkeley	1,196,208	7	88	Georgetown	558,515
	41	Ohio State	1,168,014		89	Kent State	556,189
	42	Tennessee	1,159,463		90	Brown	545,595
4	43	Toronto	1,146,879		91	Colorado State	481,863
	44	Southern California	1,140,404				
	45	Maryland	1,119,828				
	46	Texas A & M	1,090,480		92	McGill	358,952
	47	Yale	1,090,057	8	93	Duke	293,129
	48	Rice	1,071,105		94	Case Western Reserve	277,511

RANK ORDER TABLE 4: CURRENT SERIALS

The groupings of institutions below is done because in a number of cases there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, in order toprovide a "coarser" ranking, the institutions are clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1-	90,000-and over	6-	40,000-49,999
2-	80,000-89,999	7-	30,000-39,999
3-	70,000-79,999	8-	20,000-29,999
4-	60,000-69,999	9-	10,000-19,999
5-	50,000-59,999	10-	under - 9,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
	1	California, Berkeley	97,978		46	British Columbia	19,739
1	2	Harvard	95,000		47	Connecticut	19,165
	3	Illinois	91,913		47	Kent State	19,127
					49	New York	19,028
	4	Yale	60,675		50	SUNY - Buffalo	18,765
4	5	Texas	60,000		51	MIT	18,512
					52	Iowa State	18,405
	6	Columbia	58,897		53	Utah	18,207
	7	Calif., Los Angeles	57,881		54	Western Ontario	18,126
5	8	Michigan	51,268		54	Calif., Santa Barbara	18,096
	9	Cornell	50,980		56	Purdue	17,962
	10	Wisconsin	50,184				
					57	Brigham Young	17,367
	11	Stanford	49,266		58	Houston	17,002
	12	Washington	46,984		59	Arizona	16,766
6	13	Chicago	43,563		60	Maryland	16,645
	14	Indiana	42,389		60	McGill	16,627
	15	Toronto	41,154		62	Louisiana State	16,583
	16	California, Davis	40,499		62	Georgetown	16,544
					64	Colorado State	16,420
	17	Minnesota	38,542		65	South Carolina	16,303
	18	Texas A & M	35,243		66	Florida	16,238
	19	Duke	33,979		67	Cincinnati	16,021
7	20	Georgia	31,053		68	Dartmouth	15,944
	21	North Carolina	30,923		69	Joint University	15,318
	22	Princeton	30,711		70	Alberta	15,175
	23	Hawaii	30,217		71	Arizona State	15,020
	24	Ohio State	30,080	9	72	Johns Hopkins	14,913
					72	SUNY - Albany	14,897
	25	Northwestern	28,350		74	Washington, St. Louis	14,492
	26	Kansas	27,485		75	Massachusetts	14,412
	27	Washington State	27,082		76	Oklahoma	14,340
	28	Pennsylvania	26,991		77	Queen's	14,168
	29	Iowa	26,315		77	Emory	14,128
	30	Calif., San Diego	25,278		79	Case Western Reserve	13,955
	31	Kentucky	25,037		80	Temple	13,850
	32	Tennessee	24,965		81	Brown	13,606
8	33	Southern California	24,854		82	Wayne State	13,322
	34	Michigan State	24,079		83	Florida State	12,708
	35	Rutgers	23,252		83	SUNY - Stony Brook	12,664
	36	Pennsylvania State	22,733		85	Alabama	12,562
	37	Pittsburgh	21,800		86	Rochester	12,000
	37	Southern Illinois	21,769		87	Miami	11,900
	39	Nebraska	21,721		88	Notre Dame	11,728
	39	Boston	21,692		89	Colorado	11,255
	41	Virginia Polytechnic	21,393		90	McMaster	10,324
	42	Oregon	21,246				
	42	Syracuse	21,201		91	Oklahoma State	9,870
	44	Virginia	20,711		92	Tulane	9,453
	45	Missouri	19,990	10	93	Rice	8,318
					94	Howard	8,030

RANK ORDER TABLE 5: PROFESSIONAL STAFF (FTE)

The groupings of institutions below is done because in a number of cases there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, in order to provide a "coarser" ranking, the institutions are clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1-	225 and over	6-	100-124
2-	200-224	7-	75- 99
3-	175-199	8-	50- 74
4-	150-174	9-	25- 49
5-	125-149		

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Harvard	244		45	California, Davis	63
					47	Hawaii	62
	2	Illinois	178		47	Georgia	62
3	3	Toronto	175		49	Arizona	61
					50	Houston	60
	4	Yale	172		50	Johns Hopkins	60
	5	Indiana	168		50	Boston	60
4	6	Calif., Los Angeles	162		50	Massachusetts	60
	7	Michigan	155		50	MIT	60
	8	Calif., Berkeley	154		55	Syracuse	59
					56	Case Western Reserve	58
	9	Pittsburgh	146		57	Florida State	57
	10	Columbia	137		57	Joint University	57
5	11	Minnesota	132		59	Missouri	56
	12	Stanford	130	8	59	Calif., Santa Barbara	56
	13	Cornell	127		61	Virginia Polytechnic	55
					61	South Carolina	55
	14	Texas	123		61	Nebraska	55
	15	Washington	121		64	Rochester	54
	16	Northwestern	114		64	California, San Diego	54
	17	Wisconsin	112		64	Brigham Young	54
6	18	Rutgers	103		67	Tennessee	53
	19	North Carolina	102		67	Washington State	53
	19	Pennsylvania State	102		69	Louisiana State	52
	21	SUNY - Buffalo	101		70	Emory	51
					70	Georgetown	51
	22	Princeton	99		72	SUNY - Albany	50
	23	British Columbia	98		72	Washington, St. Louis	50
	24	Howard	90		72	Miami	50
	25	Duke	88				
	26	Ohio State	87				
	27	Pennsylvania	86		75	Queen's	48
	28	Maryland	83		76	Brown	47
	29	Alberta	80		77	Texas A & M	46
7	30	Southern California	79		77	Oklahoma	46
	30	McGill	79		77	Utah	46
	32	Temple	78		77	Iowa State	46
	32	Chicago	78		81	Oregon	45
	34	Florida	76		81	SUNY - Stony Brook	45
	34	Iowa	76		83	Colorado	44
	34	Virginia	76		84	Purdue	42
	37	Michigan State	75		84	Tulane	42
				9	86	Alabama	41
	38	New York	73		87	Arizona State	40
	39	Kansas	71		87	Colorado State	40
	40	Connecticut	67		89	McMaster	38
	41	Wayne State	66		90	Notre Dame	36
8	41	Southern Illinois	66		91	Oklahoma State	35
	41	Kentucky	66		92	Dartmouth	31
	44	Western Ontario	65		93	Kent State	30
	45	Cincinnati	63		94	Rice	26

RANK ORDER TABLE 6: NONPROFESSIONAL STAFF (FTE)

The groupings of institutions below is done because in a number of cases there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, in order to provide a "coarser" ranking, the institutions are clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1-	450 and over	6-	200-249
2-	400-499	7-	150-199
3-	350-399	8-	100-149
4-	300-349	9-	50-99
5-	250-299	10-	0-49

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Toronto	550		46	Washington, St. Louis	132
	2	Harvard	507		47	Temple	131
					47	Johns Hopkins	131
2	3	Yale	400		49	Pittsburgh	129
					49	Southern California	129
	4	Texas	320		49	Boston	129
	5	Michigan	309		52	Arizona	128
	6	British Columbia	303		52	Washington State	128
					54	Kansas	122
	7	Alberta	289		55	Florida	118
	8	Indiana	285		55	Southern Illinois	118
	9	Calif., Berkeley	282	8	57	SUNY - Stony Brook	116
	10	Stanford	281		58	Michigan State	114
	10	Columbia	281		59	Iowa State	113
5	12	Calif., Los Angeles	268		60	Joint University	111
	12	Pennsylvania State	268		61	Iowa	110
	12	McGill	268		62	Texas A & M	108
	15	Cornell	260		62	Miami	108
	16	Western Ontario	255		62	Arizona State	108
					65	Kentucky	107
	17	Washington	244		66	Massachusetts	106
	18	Illinois	242		67	Missouri	104
	19	Wisconsin	225		68	Nebraska	103
6	20	Rutgers	223		68	Virginia Polytechnic	103
	21	Princeton	218		70	South Carolina	102
	22	Ohio State	202		70	Colorado	102
					72	SUNY - Albany	100
	23	Virginia	184				
	24	New York	181		73	Case Western Reserve	99
	25	Maryland	180		74	Wayne State	98
	26	North Carolina	179		75	Rochester	97
	27	Minnesota	176		75	Dartmouth	97
7	28	Queen's	169		77	Hawaii	94
	29	Houston	161		78	Utah	93
	29	Duke	161		78	Brown	93
	29	McMaster	161		80	Florida State	92
	32	California, Davis	159		81	Georgetown	87
	33	Georgia	158		82	Notre Dame	85
	34	Chicago	156	9	82	Tulane	85
	35	Pennsylvania	154		84	Oklahoma	84
	36	Howard	151		85	Emory	83
					86	Louisiana State	82
	37	Northwestern	149		86	Oregon	82
	38	Calif., San Diego	147		88	Connecticut	77
	39	Tennessee	146		89	Kent State	72
	40	Purdue	145		90	Colorado State	70
8	40	Cincinnati	145		91	Alabama	60
	42	Calif., Santa Barbara	142		92	Brigham Young	59
	42	SUNY - Buffalo	142		92	Rice	59
	44	MIT	140		94	Oklahoma State	52
	45	Syracuse	139				

RANK ORDER TABLE 7: TOTAL STAFF (FTE)

The groupings of institutions below is done because in a number of cases there is a relatively insignificantdifference between two institutions, which are nevertheless given two different rankings. Therefore, in order to provide a "coarser" ranking, the institutions are clustered into groups according to the ranges specified here.

The ranges for the group below are:

1-	600 and over	7-	300-349
2-	550-599	8-	250-299
3-	500-549	9-	200-249
4-	450-499	10-	150-199
5-	400-449	11-	100-149
6-	350-399	12-	50- 99

GP	Rank	Institution	Value	GP	Rank	Institution	Value
	1	Harvard	865		46	Kansas	252
	2	Toronto	795	8	47	Calif., San Diego	250
1	3	Indiana	672				
	4	Calif. Berkeley	643		48	Arizona	249
	5	Yale	614		48	Queen's	249
					50	Iowa	245
2	6	Michigan	576		51	Boston	232
					52	Washington State	231
	7	Calif. Los Angeles	537		53	MIT	230
3	8	Illionois	522		53	Tennessee	230
	9	Texas	516		55	Joint University	228
	10	Columbia	514		56	Wayne State	227
					56	Purdue	227
	11	Washington	485		58	Kentucky	225
4	11	Stanford	485		58	Brigham Young	225
	13	Wisconsin	453		60	Johns Hopkins	224
	14	British Columbia	451	9	61	Arizona State	223
					62	Hawaii	219
	15	Cornell	441		63	McMaster	218
5	16	Pennsylvania State	434		63	Washington, St. Louis	218
	17	Minnesota	424		65	Massachusetts	212
	18	Rutgers	416		66	Georgetown	210
					67	Connecticut	204
	19	Alberta	397		67	Iowa State	204
	20	McGill	383		69	Utah	203
	21	Ohio State	381		70	Nebraska	200
6	22	Princeton	366		70	Texas A & M	200
	23	Pittsburgh	359				
	24	Western Ontario	351		72	Missouri	199
					72	Miami	199
	25	North Carolina	347		74	South Carolina	197
	26	Maryland	342		75	Louisiana State	193
	26	Northwestern	342		76	Colorado	191
7	28	Virginia	314		77	Virginia Polytechnic	190
	29	Chicago	312		78	Case Western Reserve	189
	30	Duke	307	10	79	SUNY - Stony Brook	186
	31	Pennsylvania	300		80	Oregon	182
					81	Brown	181
	32	Southern California	294		82	Rochester	179
	33	Houston	293		83	Oklahoma	176
	34	SUNY - Buffalo	289		83	Florida State	176
	35	New York	288		85	SUNY - Albany	168
	36	California, Davis	286		86	Emory	162
	37	Michigan State	283		87	Tulane	159
	38	Howard	274		88	Alabama	158
8	39	Calif. Santa Barbara	270		89	Notre Dame	157
	40	Southern Illinois	267				
	41	Temple	264		90	Dartmouth	145
	42	Syracuse	261		91	Kent State	131
	43	Georgia	259	11	92	Oklahoma State	127
	44	Cincinnati	258		93	Colorado State	125
	45	Florida	256				
				12	94	Rice	92

RANK ORDER TABLE 8: MATERIALS EXPENDITURES

The groupings of institutions below is done because in a number of cases there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, in order toprovide a "coarser" ranking, the institutions are clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	2,500-and over	5-	1,300-1,599
2-	2,200-2,499	6-	1,000-1,299
3-	1,900-2,199	7-	700- 999
4-	1,600-1,899	8-	400- 699

GP	Rank	Institution	Value	GP	Rank	Institution	Value
	1	Harvard	3,569,946		47	Iowa State	1,400,931
	2	Florida	3,337,220		48	Southern Illinois	1,399,161
	3	Texas	3,239,868		49	Connecticut	1,386,770
1	4	Stanford	3,144,636	5	50	South Carolina	1,385,334
	5	Indiana	2,947,864		51	Northwestern	1,368,909
	6	Florida State	2,936,589		52	Chicago	1,357,048
	7	Toronto	2,863,255		53	Tennessee	1,320,669
	8	Yale	2,821,033		54	Missouri	1,319,475
	9	Calif., Los Angeles	2,765,897				
					55	Pennsylvania	1,298,623
	10	British Columbia	2,473,368		56	Texas A & M	1,285,239
	11	Calif., Berkeley	2,471,036		57	Hawaii	1,273,847
	12	Virginia	2,417,737		58	Emory	1,264,242
2	13	Rutgers	2,410,860		59	SUNY - Buffalo	1,256,187
	14	Cornell	2,337,368		60	Johns Hopkins	1,234,078
	15	Illinois	2,217,557		61	Howard	1,227,676
	16	Michigan	2,212,803		62	Wayne State	1,201,261
	17	Wisconsin	2,202,407		63	Temple	1,198,436
					64	Washington, St. Louis	1,185,231
	18	Alberta	2,166,605		65	Purdue	1,152,414
	19	North Carolina	2,089,588	6	66	SUNY - Stony Brook	1,150,855
	20	Washington	2,064,988		67	Washington State	1,137,433
	21	Columbia	2,064,341		68	Joint University	1,115,088
3	22	Iowa	2,057,256		69	Rochester	1,100,000
	23	Princeton	1,978,637		70	Louisiana State	1,079,054
	24	Arizona	1,964,024		71	Utah	1,075,511
	25	Georgia	1,941,040		72	Georgetown	1,072,695
	26	Minnesota	1,928,757		73	Cincinnati	1,058,146
	27	Pennsylvania State	1,907,019		74	Syracuse	1,042,611
					75	Boston	1,034,293
	28	California, Davis	1,885,000		76	Oklahoma	1,033,273
	29	Houston	1,799,217		77	Dartmouth	1,030,284
	30	Virginia Polytechnic	1,727,687		78	Queen's	1,020,300
4	31	Ohio State	1,654,939		79	Oregon	1,011,350
	32	Southern California	1,624,934				
	33	Western Ontario	1,623,398		80	SUNY - Albany	971,000
	34	Duke	1,614,610		81	Miami	966,887
					82	MIT	922,866
	35	McGill	1,559,163		83	Alabama	905,914
	36	Kansas	1,534,741	7	84	Colorado	901,698
	37	Michigan State	1,531,524		85	Brown	837,880
	38	New York	1,518,974		86	Case Western Reserve	836,006
	39	McMaster	1,513,353		87	Massachusetts	811,554
	40	Calif., San Diego	1,486,390		88	Tulane	784,559
	41	Maryland	1,475,666		89	Notre Dame	767,386
	42	Kentucky	1,468,371		90	Colorado State	766,879
5	43	Pittsburgh	1,446,846		91	Rice	732,998
	44	Arizona State	1,439,587				
	45	Nebraska	1,437,758		92	Oklahoma State	614,023
	46	Calif., Santa Barbara	1,436,989	8	93	Kent State	543,812

Brigham Young figures not available.

RANK ORDER TABLE 9: MATERIALS & BINDING EXPENDITURES

The groupings of institutions below is done because in a number of cases there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, in order to provide a "coarser" ranking, the institutions are clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 2,800 and over
2- 2,500-2,799
3- 2,200-2,499
4- 1,900-2,199
5- 1,600-1,899
6- 1,300-1,599
7- 1,000-1,299
8- 700- 999
9- 400- 699

GP	Rank	Institution	Value	GP	Rank	Institution	Value
	1	Harvard	4,000,219		47	Southern Illinois	1,516,162
	2	Florida	3,710,603		48	Chicago	1,505,181
	3	Stanford	3,449,711		49	Iowa State	1,503,365
1	4	Texas	3,362,868		50	Northwestern	1,493,316
	5	Indiana	3,118,314		51	South Carolina	1,492,220
	6	Calif., Los Angeles	3,053,206		52	Pennsylvania	1,466,275
	7	Toronto	3,037,638	6	53	Connecticut	1,461,633
	8	Yale	3,033,904		54	Tennessee	1,414,696
	9	Florida State	3,002,018		55	Missouri	1,402,304
					56	Hawaii	1,370,273
	10	Calif., Berkeley	2,753,350		57	SUNY - Buffalo	1,364,186
	11	British Columbia	2,650,621		58	Texas A & M	1,360,239
2	12	Rutgers	2,586,145		59	Emory	1,357,767
	13	Virginia	2,576,807				
	14	Cornell	2,521,023		60	Johns Hopkins	1,289,682
					61	Wayne State	1,286,590
	15	Illinois	2,414,208		62	Temple	1,282,795
	16	Michigan	2,402,655		63	Howard	1,267,727
	17	Wisconsin	2,347,366		63	Washington, St. Louis	1,267,636
3	18	Alberta	2,332,293		65	Purdue	1,235,562
	19	Washington	2,302,630		66	Washington State	1,221,819
	20	North Carolina	2,258,355		67	SUNY - Stony Brook	1,219,355
	21	Columbia	2,246,232		68	Joint University	1,192,591
	22	Iowa	2,239,548		69	Rochester	1,192,000
				7	70	Louisiana State	1,163,906
	23	Arizona	2,150,403		71	Georgetown	1,147,964
	24	Georgia	2,107,444		72	Utah	1,135,287
4	25	Princeton	2,094,227		73	Cincinnati	1,122,112
	26	Minnesota	2,085,059		74	Syracuse	1,113,578
	27	California, Davis	2,078,000		75	Boston	1,105,419
	28	Pennsylvania State	2,003,257		76	Queen's	1,087,000
					77	Oklahoma	1,085,385
	29	Houston	1,885,763		78	Dartmouth	1,067,740
	30	Virginia Polytechnic	1,860,607		79	Oregon	1,066,257
	31	Western Ontario	1,760,068		80	Miami	1,028,754
	32	Duke	1,742,943		81	SUNY - Albany	1,008,916
5	33	Southern California	1,732,246				
	34	Ohio State	1,693,290		82	MIT	972,752
	35	McGill	1,684,206		83	Colorado	961,698
	36	Calif., San Diego	1,675,636		84	Alabama	959,252
	37	Michigan State	1,641,778		85	Brown	929,978
	38	New York	1,636,092	8	86	Case Western Reserve	900,617
	39	Kansas	1,626,770		87	Massachusetts	871,554
	40	Maryland	1,605,796		88	Tulane	869,184
					89	Colorado State	841,781
	41	Pittsburgh	1,572,529		90	Notre Dame	803,929
	42	Kentucky	1,571,809		91	Rice	776,867
6	43	McMaster	1,559,753				
	44	Calif., Santa Barbara	1,559,196				
	45	Arizona State	1,531,547		92	Oklahoma State	653,547
	46	Nebraska	1,520,416	9	93	Kent State	605,272

Brigham Young figures not available.

RANK ORDER TABLE 10: SALARIES & WAGES

The groupings of institutions below is done because in a number of cases there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, in order to provide a "coarser" ranking, the institutions are clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 8,000 and over
2- 7,000-7,999
3- 6,000-6,999
4- 5,000-5,999
5- 4,000-4,999
6- 3,000-3,999
7- 2,000-2,999
8- 1,000-1,999
9- 0- 999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
	1	Toronto	9,564,371		45	Southern Illinois	2,546,292
1	2	Calif., Berkeley	9,555,624		46	Queen's	2,530,000
	3	Harvard	8,570,220		47	Purdue	2,505,320
					48	Kansas	2,347,055
2	4	Calif., Los Angeles	7,818,873		49	Cincinnati	2,280,473
					50	Johns Hopkins	2,263,638
	5	Yale	6,402,127		51	McMaster	2,257,729
3	6	British Columbia	6,303,582		52	MIT	2,204,382
					53	Washington State	2,185,086
	7	Michigan	5,671,148	7	54	Georgia	2,149,758
	8	Stanford	5,521,295		55	Massachusetts	2,118,456
4	9	Indiana	5,363,862		56	Connecticut	2,103,367
	10	Minnesota	5,272,182		57	Colorado	2,097,574
	11	Columbia	5,174,442		58	Boston	2,094,251
	12	McGill	5,108,058		59	Houston	2,069,383
					60	Arizona	2,041,252
	13	Cornell	4,995,804		61	Kentucky	2,006,738
	14	Illinois	4,858,082		62	Georgetown	2,000,670
	15	Washington	4,793,579				
	16	Texas	4,778,439		63	Iowa State	1,930,516
5	17	Alberta	4,747,922		64	Rochester	1,924,000
	18	Wisconsin	4,543,518		65	SUNY - Stony Brook	1,915,015
	19	Rutgers	4,522,169		66	Washington, St. Louis	1,877,191
	20	Pennsylvania State	4,389,506		67	Tennessee	1,861,543
	21	Ohio State	4,051,887		68	Louisiana State	1,840,551
					69	Utah	1,816,516
	22	California, Davis	3,731,000		70	Virginia Polytechnic	1,804,865
	23	Northwestern	3,723,709		71	Arizona State	1,798,175
	24	Western Ontario	3,653,027	8	72	Syracuse	1,778,021
	25	Princeton	3,625,855		73	Nebraska	1,761,476
	26	Pennsylvania	3,484,819		74	SUNY - Albany	1,735,699
6	27	Maryland	3,339,954		75	Miami	1,732,495
	28	Chicago	3,326,184		76	Case Western Reserve	1,717,117
	29	North Carolina	3,305,623		77	Missouri	1,676,046
	30	New York	3,218,043		78	South Carolina	1,638,183
	31	Pittsburgh	3,187,731		79	Brown	1,627,498
	32	Calif., Santa Barbara	3,179,022		80	Emory	1,603,155
	33	California, San Diego	3,114,841		81	Florida State	1,586,699
					82	Oregon	1,568,063
	34	Virginia	2,891,959		83	Texas A & M	1,557,876
	35	Duke	2,876,749		84	Joint University	1,493,705
	36	Michigan State	2,835,674		85	Oklahoma	1,468,279
	37	Southern California	2,753,779		86	Colorado State	1,388,924
	38	Florida	2,660,359		87	Dartmouth	1,341,741
7	39	SUNY - Buffalo	2,657,467		88	Tulane	1,307,142
	40	Howard	2,637,902		89	Kent State	1,281,677
	41	Iowa	2,630,297		90	Notre Dame	1,191,684
	42	Wayne State	2,627,351		91	Alabama	1,144,149
	43	Hawaii	2,556,592				
	44	Temple	2,553,308		92	Oklahoma State	984,692
				9	93	Rice	889,595

Brigham Young figures not available.

RANK ORDER TABLE 11: TOTAL OPERATING EXPENDITURES

The groupings of institutions below is done because in a number of cases there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, in order to provide a "coarser" ranking, the institutions are clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1-	11,000 and over	7-	5,000-5,999
2-	10,000-10,999	8-	4,000-4,999
3-	9,000- 9,999	9-	3,000-3,999
4-	8,000- 8,999	10-	2,000-2,999
5-	7,000- 7,999	11-	1,000-1,999
6-	6,000- 6,999		

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
	1	Harvard	14,568,225		46	Houston	4,485,645
1	2	Toronto	13,786,130		47	SUNY - Buffalo	4,467,578
	3	Calif. Berkeley	13,502,631		48	Kansas	4,394,535
	4	Calif., Los Angeles	11,964,591	8	49	Johns Hopkins	4,300,235
					50	Hawaii	4,183,911
	5	Yale	10,716,398		51	McMaster	4,106,378
2	6	Stanford	10,229,108		52	Temple	4,016,425
	7	Indiana	9,668,108		53	Purdue	3,984,034
3	8	British Columbia	9,472,563		54	Kentucky	3,944,882
					55	Virginia Polytechnic	3,932,406
	9	Michigan	8,653,107		56	Washington State	3,817,065
4	10	Texas	8,645,034		57	Connecticut	3,800,936
	11	Cornell	8,428,338		58	Washington, St. Louis	3,784,072
					59	Queen's	3,772,000
	12	Rutgers	7,987,122		60	Cincinnati	3,647,638
	13	Alberta	7,859,099		61	Georgetown	3,611,222
	14	Illinois	7,856,700		62	Arizona State	3,596,707
	15	Columbia	7,816,273		63	Tennessee	3,589,149
5	16	Minnesota	7,775,921		64	Nebraska	3,571,159
	17	Wisconsin	7,617,764		65	Iowa State	3,551,548
	18	Washington	7,436,275		66	Missouri	3,538,470
	19	McGill	7,145,991	9	67	Boston	3,459,403
	20	Pennsylvania State	7,077,403		68	MIT	3,448,889
					69	Joint University	3,446,195
	21	Northwestern	6,775,246		70	SUNY - Stony Brook	3,420,754
	22	Florida	6,585,867		71	Rochester	3,419,000
	23	California, Davis	6,302,000		72	South Carolina	3,312,107
6	24	Ohio State	6,298,815		73	Utah	3,287,683
	25	North Carolina	6,088,118		74	Oregon	3,236,899
	26	Virginia	6,069,523		75	Louisiana State	3,231,407
	27	Princeton	6,027,912		76	Miami	3,229,403
					77	Emory	3,226,866
	28	Western Ontario	5,894,596		78	Syracuse	3,220,020
	29	Maryland	5,483,087		79	Colorado	3,209,363
	30	Pennsylvania	5,414,257		80	Texas A & M	3,149,268
	31	Chicago	5,315,329		81	Massachusetts	3,123,975
7	32	Calif., San Diego	5,313,674		82	Case Western Reserve	3,000,296
	33	New York	5,294,372				
	34	Pittsburgh	5,120,678		83	SUNY - Albany	2,968,729
	35	Iowa	5,068,661		84	Oklahoma	2,848,394
	36	Calif., Santa Barbara	5,051,195		85	Dartmouth	2,735,011
					86	Brown	2,709,845
	37	Duke	4,952,681	10	87	Colorado State	2,462,531
	38	Southern California	4,859,619		88	Tulane	2,355,482
	39	Michigan State	4,824,794		89	Alabama	2,300,882
	40	Georgia	4,814,800		90	Notre Dame	2,185,610
8	41	Florida State	4,745,886		91	Kent State	2,089,771
	42	Howard	4,667,064				
	43	Wayne State	4,626,922		92	Rice	1,902,398
	44	Arizona	4,542,400	11	93	Oklahoma State	1,832,609
	45	Southern Illinois	4,523,184				

Brigham Young figures not available.

RANK ORDER TABLE 12: TOTAL ITEMS LOANED

The groupings of institutions below is done because in a number of cases there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, in order to provide a "coarser" ranking, the institutions are clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1-	90,000 and over	6-	40,000-49,999
2-	80,000-89,999	7-	30,000-39,999
3-	70,000-79,999	8-	20,000-29,999
4-	60,000-69,999	9-	10,000-19,999
5-	50,000-59,999	10-	under 9,999

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
	1	Minnesota	128,048		46	Tennessee	12,014
1	2	Washington	105,750		47	Johns Hopkins	11,750
	3	Wisconsin	102,580	9	48	Kentucky	10,596
					49	Yale	10,889
4	4	Harvard	66,162		49	Purdue	10,877
					51	Wash. Univ., St. Louis	10,387
5	5	Calif., Los Angeles	58,287				
					52	SUNY - Albany	9,932
6	6	Illinois	43,259		52	Maryland	9,879
					54	Virginia	9,575
	7	Case Western Reserve	35,798		54	Colorado	9,559
7	8	Calif., Berkeley	31,743		56	Nebraska	9,485
	9	McGill	30,255		57	Northwestern	9,398
					57	SUNY - Stony Brook	9,395
	10	Pittsburgh	29,476		59	Florida State	8,882
	11	Oklahoma	26,548		60	Oregon	8,639
	12	Wayne State	28,202		61	South Carolina	8,548
	13	Indiana	27,246		62	Temple	8,405
	14	Rutgers	26,831		63	Colorado State	8,185
	15	Michigan State	26,237		63	Utah	8,186
	16	Ohio State	25,994		65	Western Ontario	7,852
8	17	Chicago	25,582		65	Hawaii	7,841
	18	Southern Illinois	23,986		67	Massachusetts	7,874
	19	Cornell	23,722	10	68	New York	7,570
	20	Kansas	23,572		69	Dartmouth	7,337
	21	Michigan	23,382		70	Alberta	7,228
	21	Duke	23,296		70	Southern California	7,206
	23	British Columbia	23,158		70	Arizona	7,168
	24	California, Davis	22,731		73	Princeton	6,850
	25	Texas A & M	20,204		74	Miami	6,632
					74	Virginia Polytechnic	6,581
	26	North Carolina	19,875		74	Louisiana State	6,538
	27	Georgia	19,383		77	McMaster	6,471
	28	Stanford	19,035		78	Joint University	6,354
	29	Connecticut	18,452		79	Oklahoma State	6,121
	30	Iowa	17,165		80	Rice	5,645
	31	Missouri	16,850		80	Kent State	5,615
	32	Pennsylvania State	16,687		82	Arizona State	5,313
	33	Florida	16,412		83	Houston	5,252
	34	Columbia	15,916		83	Georgetown	5,203
	35	Rochester	15,300		85	Queen's	4,829
9	35	SUNY - Buffalo	15,280		86	Brown	4,181
	37	MIT	14,953		87	Boston	3,529
	38	Calif., San Diego	14,657		88	Syracuse	3,873
	39	Pennsylvania	14,525		89	Brigham Young	3,779
	40	Texas	14,206		90	Washington State	3,584
	41	Toronto	13,227		91	Alabama	3,489
	42	Tulane	13,129		92	Calif., Santa Barbara	2,596
	42	Emory	13,057		93	Howard	2,463
	44	Cincinnati	12,220		93	Notre Dame	2,441
	44	Iowa State	12,162				

RANK ORDER TABLE 13: TOTAL ITEMS BORROWED

The groupings of institutions below is done because the number of items there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, to provide a "crossover" ranking, the institutions are clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1=	15,000 and over	5=	7,000-8,999
2=	13,000-14,999	6=	5,000-6,999
3=	11,000-12,999	7=	3,000-4,999
4=	9,000-10,999	8=	under 3,000

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
1	1	Wisconsin	21,010		45	Rutgers	5,230
	2	Minnesota	18,852		46	North Carolina	5,223
				6	47	Pennsylvania State	5,189
2	3	SUNY - Albany	13,408		48	Purdue	4,999
					49	Case Western Reserve	4,998
	4	Indiana	12,182				
3	5	Harvard	12,168		50	Oregon	4,889
					51	Northwestern	4,892
4	6	Johns Hopkins	10,714		51	Kentucky	4,889
	7	Kansas	9,97,		51	Michigan	4,887
					51	Duke University	4,887
	8	Calif., Berkeley	8,498		51	Illinois	4,888
	9	Oklahoma	8,462		57	Massachusetts	4,839
	10	Columbia	8,350		57	SUNY - Stony Brook	4,542
5	11	Calif., Santa Barbara	8,252		58	Washington	4,837
	12	Tulane	8,158		59	Emory	4,335
	13	Texas	7,916		59	Western Ontario	4,338
	14	Cincinnati	7,514		61	Michigan State	4,288
	15	Connecticut	7,293		62	Houston	4,172
	16	McMaster	7,207		62	Georgetown	4,165
	16	Toronto	7,180	7	64	Colorado State	4,027
	18	Ohio State	7,052		65	Nebraska	3,954
	18	Texas A & M	7,057		66	Kent State	3,937
					67	South Carolina	3,876
	20	McGill	6,955		68	Temple	3,738
	21	Utah	6,798		69	Stanford	3,709
	21	British Columbia	6,797		69	Missouri	3,698
	23	Pittsburgh	6,788		71	Miami	3,650
	24	Georgia	6,718		71	Syracuse	3,641
	25	Calif., Los Angeles	6,660		73	Duke	3,569
	26	Florida	6,599		74	Southern California	3,527
	26	Chicago	6,598		75	Maryland	3,464
	28	Boston	6,587		75	Iowa State	3,421
	29	Iowa	6,566		75	Tennessee	3,412
	29	Louisiana State	6,538		78	Virginia Polytechnic	3,307
	31	Rochester	6,500		79	MIT	3,183
	32	SUNY - Buffalo	6,421		80	Oklahoma State	3,079
6	33	Southern Illinois	6,329				
	34	Pennsylvania	6,199		81	Brigham Young	2,950
	35	Cornell	6,087		82	Washington State	2,935
	36	Yale	6,050		83	Hawaii	2,742
	37	Arizona State	6,000		83	Princeton	2,733
	37	New York	6,027		83	Dartmouth	2,729
	39	California, San Diego	6,000		86	Virginia	2,681
	40	Colorado	5,511		87	Alabama	2,642
	41	Washington, St. Louis	5,476	7	87	Florida State	2,622
	42	California, Davis	5,407		89	Wayne State	2,585
	43	Alberta	5,278		90	Arizona	2,246
	43	Queen's	5,253		91	Notre Dame	1,545
					92	Brown	1,339
					93	Rice	1,254
					94	Howard	1,195

[illegible] TABLE IV: CURRENT PERSONNEL EXPENDITURES

The groupings of institutions below is done because in a number of cases there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. Therefore, in order to provide a "coarser" ranking, the institutions are clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1=	1,100 and over	7=	500-550
2=	1,000-1,050	8=	450-495
3=	900- 950	9=	350-395
4=	800- 850	10=	250-295
5=	700- 750	11=	under 200
6=	600- 650		

Gp	Rank	Institution	Value	Gp	Rank	Institution	Value
	1	Harvard	1,561,300		45	Iowa State	705,191
	2	Texas	1,473,847	9	46	Purdue	715,130
	3	Stanford	1,365,551		47	Washington, St. Louis	710,000
	4	Indiana	1,358,710		48	California, Davis	710,000
	5	Minnesota	1,317,891				
	6	Michigan	1,291,168		49	Louisiana State	695,570
1	7	Washington	1,200,812		50	Rochester	690,000
	8	Illinois	1,211,516		51	SUNY - Albany	687,000
	9	Columbia	1,205,258		52	Iowa Western Reserve	685,248
	10	Toronto	1,168,163		53	Connecticut	681,767
	11	Rutgers	1,148,552		54	Oklahoma	679,368
	12	British Columbia	1,147,000		55	Calif., San Diego	676,000
	13	Georgia	1,121,303	8	56	Boston	675,679
	14	Calif., Berkeley	1,103,911		57	Syracuse	672,610
	15	Minnesota	1,102,113		58	MIT	670,882
					59	Kansas	668,851
2	16	Yale	1,078,268		60	Cincinnati	668,150
	17	Virginia	1,029,812		61	Calif., Santa Barbara	666,000
	18	Iowa	977,307		62	Dartmouth	665,229
	19	Princeton	959,508		63	South Carolina	660,560
	20	Southern Illinois	947,852		64	Arizona	575,450
3	21	Western Ontario	917,866		65	Massachusetts	575,180
	22	Duke	910,575		66	Queen's	577,600
	23	Tennessee	911,179		67	Emory	570,675
	24	Florida State	901,045	9	68	Wayne State	560,537
					69	Hawaii	557,000
	25	Kentucky	878,600		70	Miami	550,250
	26	Northwestern	852,529		71	Arizona State	550,547
	27	Southern California	838,258		72	Rutgers	545,572
	28	Missouri	834,750		73	Virginia Polytechnic	540,000
4	29	Pennsylvania State	805,358		74	SUNY - Stony Brook	538,[illegible]0
	30	McGill	804,298		75	New York	[illegible]0,150
	31	Ohio State	801,189				
	32	SUNY - Buffalo	810,810		76	Tulane	537,000
	33	Temple	811,181		77	Georgetown	536,378
	34	Maryland	803,434		78	Colorado State	534,689
					79	Colorado	532,731
	35	Washington State	798,666		80	Oregon	532,855
	36	Pittsburgh	795,359	9	81	Florida	532,571
	37	Houston	790,675		82	Alabama	532,053
	38	Michigan State	788,800		83	Calif., Los Angeles	528,750
5	39	Notre Dame	779,800		84	Utah	515,307
	40	Alberta	758,884		85	Howard	508,258
	41	Texas A & M	755,500		86	Utah	505,400
	42	Nebraska	748,484		87	Notre Dame	504,400
	43	Chicago	741,751				
	44	Pennsylvania	735,788		88	Oklahoma State	397,240
					89	North Carolina	385,610
					90	Brown	350,280
				10	91	Kent State	211,577

ARL STATISTICS 1977-78

Instructions For Completion of Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in Library Statistics: A Handbook of Concepts, Definitions and Terminology (Chicago: American Library Association, 1966).

2. All figures should be rounded to the nearest whole number.

3. Collections. Use the ALA definition for "Volume" as noted in instruction 1 above. Include microforms, nonprint materials, uncataloged items and government documents unless cataloged. Include duplicates and bound volumes of periodicals.

4. Serials. Include duplicate subscriptions. Because of the number of questions raised regarding the counting of serials, we call to your attention the definition to be used for this survey.

> Publications constituting one issue in a continuous series under the same title published at regular or irregular intervals, over an indefinite period, individual issues in the series being numbered consecutively or each issue being dated. Newspapers as well as publications appearing annually or less frequently are included in the definition.

5. Personnel. All figures should be rounded to the nearest whole number. Report the number of staff in filled positions, or positions which are only temporarily vacant. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library.

6. Professional staff. Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, such as computer experts, systems analysts, budget officers, etc.

7. Expenditures. Report all expenditures, regardless of whether the funds come from the regular library budget or from special funds, such as research grants. Include federal funds for work study students.

8. Exclude expenditures for buildings and maintenance, fringe benefits and computer operations. (Note: Because of the variety of arrangements and applications of computer technology in ARL libraries, this instruction was variously interpreted. See Footnote).

9. Ph.D. Degrees. Please note that only the number of Ph.D. degrees awarded are to be counted. Omissions or all other advanced degrees (e.g. D.Ed., D.P.A., M.D., J.D., etc.) are not required for this survey. (Note: Because a number of universities do not maintain separate records on Ph.D degrees, figures reported are "unofficial").

10. Ph.D. Fields. With regard to fields in which Ph.Ds can be awarded, reporting libraries should use as a standard the fields listed in the form used by the Department of Health Education and Welfare in collecting statistics on higher education. The official title of the form is: "Higher Education General Information Survey, Degrees and Other Formal Awards Conferred." It is designated: S Form(s)300-2.1. Again, only Ph.D fields are wanted, as noted in 9 above. (Note: Because a number of universities do not maintain separate records on Ph.D degrees, figures reported are "unofficial").

11. Enrollment. With regard to university enrollment figures, use figures reported to HEGIS on HE Form 2300-2.1, "Fall Enrollment and Compliance Report...." The line and column number on the HEGIS form for each category are noted on the questionnaire. (Note: Because HEGIS figures were not available for many institutions, figures reported are "unofficial").

12. The reporting libraries are urged to record in the footnote section any circumstances that would clarify the figures submitted, e.g., the inclusion of branch campus libraries. Explanatory footnotes will be included with the published statistics.

13. After the questionnaire has been completed, please compare the statistics with those submitted last year. On occasion, an error will be detected because of an unusual difference between the figures submitted this year and those for the preceding year.

14. Please return one copy of the questionnaire to the ARL Office by October 1, 1978. If there are any questions about the procedure to be followed in completing this questionnaire, please contact the ARL Office.

FOOTNOTES FOR ARL STATISTICS

1977-78

FOOTNOTES TO ARL STATISTICS, 1977-78

ALABAMA		Statistics reported include the Library of Health Sciences on the UA Tuscaloosa campus, but do not include the UA Medical School Library located in Birmingham.
	(1)	479,667 government documents not included in the volume count.
	(20, 21)	Student count includes those on work-study and regular payroll.
ALBERTA		Excludes Extension Library, Boreal Institute Library, and St. Joseph's College Library, College Universitaire, St. Jean. Enrollment figures are headcounts, not FTE's.
BOSTON		Includes the Theology Library.
BRITISH COLUMBIA		Regarding enrollment Canadian libraries do not report to HEGIS. The figures cited are best estimates of what is requested.
	(1)	Excludes 497,572 government documents previously counted.
	(5)	Last year's reported figure for the amount spent on current serials was far short of actual expenses. The precise figure in both cases is impossible to isolate.
BROWN		Excludes John Carter Brown Library
CALIF., LOS ANGELES	(1)	Volumes count corrected.
	(6, 8)	Includes 3,574 supplied by the Pacific Southwest Regional Medical Library Service.
	(7, 8)	Includes 25,692 supplied by the Pacific Southwest Regional Medical Library Service.
CASE WESTERN RESERVE		Volume count is physical and bibliographic.
CHICAGO	(1,2,3,4)	Includes microforms. Basis of volume count is bibliographic for microforms only.
CINCINNATI	(1)	The Law Library data is based on a bibliographic count.

	(5)	1976-77 figure corrected.
	(12-14,16,17)	Includes funds received from Cincinnati General Hospital which were not previously reported.
	(15)	Only library operating funds included.
DARTMOUTH	(1)	Serial analytics given a bibliographic count.
	(16)	Includes Nelinet-OCLC memberships, automation supplies, equipment, and other expenditures, but not computer time.
EMORY	(1)	Included adjustments of 22,011 volumes resulting from physical count of recently purchased Hartford Seminary Library.
	(5)	Includes the 2,000 depository serials on microcards. Excludes 3,039 corporate annual reports.
FLORIDA		The report includes all libraries: Main Library West and East and branches in Music, Architecture and Fine Art, Engineering and Physics, Education, Chemistry, P.K. Young Laboratory School, Physical Education Reading Room and Journalism Reading Room, also Health Center Library, Law Library and Agricultural Library.
FLORIDA STATE		Includes Florence and London Study Center Libraries and the Development Research School Library.
	(1)	Excludes 694,153 documents, 117,969 maps, 15,683 audio recordings.
GEORGETOWN		Excludes Center for Population Research (2,000 volumes); includes statistics for the Bioethics Library for the first time.
	(16, 17)	Library computer costs of $58,161 are not included, as they are not charged to the Library's budget.
HARVARD		Excludes cost of retirement and benefit programs: $1,239,464; Building charged on budgets of library units: $1,566,818. Total library reported expenditures: $17,374,507.

HAWAII		Figures exclude Industrial Relations Library, Hawaii Institute of Geophysics Library, and School of Public Health Reference Collection, all not under university library administration.
	(1)	1976-77 Figures corrected.
	(18, 21)	Librarian positions only; does not include three positions formerly counted as professional but now counted as paraprofessional. Also excludes 8.66 professional FTE paid from sources outside the library budget.
HOUSTON		Includes Clear Lake, Downtown College and Victoria campus libraries.
ILLINOIS		For the first time, figures are for the Urbana-Champaign Campus only.
		Enrollment figures are for Total FTE and FTE graduate students.
INDIANA		Indianapolis libraries and Regional Campuses libraries are included.
	(1)	1976-77 figure corrected.
JOHN CRERAR		Figures for collections and expenditures are Crerar Library data only and are for the period October 1, 1976 through September 30, 1977.
	(6-11)	Data covers calendar 1977.
	(18-21)	Includes all service, grant and contract operations (e.g. Regional Medical Library Management Office, National Translations Center, III library operations, Research Information Service.)
KANSAS	(1)	Adjusted figure resulting from an actual count of the Law collections.
LOUISIANA STATE	(1)	Volumes held include bound government documents but exclude all unbound documents.
	(5)	Number of current periodicals excludes government document periodicals.
McGILL	(1)	1976-77 volume count corrected.

MARYLAND		College of Library and Information Services data is included for Collections and Expenditures, but not for Personnel.
	(15)	Excludes funds for work study students.
MICHIGAN		Excluded are the Dearborn Campus Library and the University of Michigan, Flint Library.
	(1)	1976-77 volumes count corrected.
MICHIGAN STATE	(1)	1976-77 volume count corrected.
MINNESOTA	(1)	As a result of a systematic review of our collection size statistics, UM has added 88,133 volumes, not previously reported from archives and special book collections and 58,127 volumes, added from a number of smaller inventory-corrected collection reports.
MISSOURI	(5)	Includes approximately 1,000 gift subscriptions not counted in 1976-77.
NATIONAL LIB. OF CANADA	(5)	Excludes serials in the Official Publications Division, newspapers on microform, and some 18,000 bound volumes of newspapers, some of which are in storage.
	(12-14)	Figure for fiscal year 1977/78 i.e. April 1, 1977 to March 30, 1978 (Allotment).
NATIONAL LIB. OF MEDICINE		Statistics on personnel and expenditures reflect only the Library Operations component of the National Library of Medicine, namely; Reference Services Division, Bibliographic Services Division, Technical Services Division, History of Medicine Division, and the Office of the Associate Director for Library Operations.
	(5)	File maintenance eliminated dead titles carried earlier.
NEBRASKA		Only Ph.D degrees awarded are reported this year. Other advanced degrees were counted in previous ARL reports.
	(15, 17)	Includes federal funds for work study students which were not included in previous ARL Reports.
	(16, 17)	Excludes computer operation expenditures of $14,181 which have been included in previous ARL reports.

NEW YORK	(12.5)	Does not include for Business Library, Law Library, Dental Library.
	(16, 17)	Includes cost of OCLC/CLSI computer operations, does not include data processing charges.
NEW YORK PUBLIC	(5)	Beginning in 1976 serial count comprised both serials and periodcals. Prior to 1976 only periodical titles were reported.
NORTH CAROLINA	(15, 17)	Excludes $48,550 in wages for work-study students assigned to the Library.
NORTHWESTERN	(1)	1976-77 figures corrected.
	(15)	Includes $292,256 of project staff salaries and $298,592 of federally-paid work/study wages (80% of first $1,000 earned).
	(17)	Includes $990,707 of project expenses and $298,592 of federally-paid work/study wages.
	(18, 19, 21)	Include 19 professional and 6 nonprofessional project staff.
OHIO STATE	(4, 6-11)	Excludes Law Library Figures.
	(13, 15)	$84,120 for bindery personnel included in salaries and wages.
OKLAHOMA	(1)	1976-77 volume count corrected.
	(4)	Figures exclude Law and Health Sciences Library.
	(6-11)	Figures exclude Law Library.
OKLAHOMA STATE	(16, 17)	Includes $33,069 for computer operations.
OREGON		Includes Instructional Media Center.
PENNSYLVANIA		Excludes the Library of the Fels Center of Government, which had been included in the previous report.
PENNSYLVANIA STATE		Excludes Capitol Campus Graduate Center at Middletown, Pennsylvania.
	(5)	1976-77 figure corrected.

PITTSBURGH		Includes 4 regional campus libraries.
	(15, 17)	Does not include salary information for the Director and two Law librarians.
PURDUE	(1)	1976-77 volume count corrected.
QUEEN'S		Excludes Library of the Industrial Relations Centre.
RICE	(1)	Excludes 110,264 government documents previously included in volume count.
	(23)	Exclude 12,302 government documents.
ROCHESTER	(1)	Corrected figure; some microforms included in previous year.
RUTGERS		System includes two law libraries, services to non-Rutgers medical school, colleges and professional schools in Camden, Newark, and New Brunswick.
	(15)	Includes only expenditures for positions paid from the library budget.
	(20, 21)	Does not include federally-funded work study students.
SMITHSONIAN		Excludes Hirshhorn Museum, National Collection of Fine Arts/National Portrait Gallery, and Woodrow Wilson Center for International Studies.
SOUTH CAROLINA		Figure for number of microcards held corrected from 1976-77 report.
SOUTHERN CALIFORNIA		Includes the Andrus Gerontology Center Library and the Hancock Library of Biology and Oceanography. Does not include the Safety and Systems Management Library.
	(5)	Includes duplicate subscriptions for the first time. Includes the federal share of the college work studies for the first time.
SOUTHERN ILLINOIS		Includes for the first time figures for the School of Medicine Library.
	(1)	Since 1975-76 basis of volume count has been number of physical volumes.

STANFORD		Excludes Hopkins Marine Station, Pacific Grove, California.
	(16, 17)	Includes automation expenses of $610,746.
SUNY, ALBANY		Ph.D fields: 1976-77 figure revised.
	(1)	1976-77 volumes count corrected based on physical count, March, 1978.
	(6-8)	Figures represent total requests, both filled and unfilled.
	(20, 21)	Excludes students assigned to the library from College Work Study Program (41 FTE).
SUNY, BUFFALO	(1)	1976-77 volume count corrected.
	(20)	Excludes federal work study.
SUNY, STONY BROOK		Excludes Library of the Institute for the Advanced Study of World Religions. Data supplied is for the fiscal year ending 3/31/78 except for Ph.D data which is for the academic year.
SYRACUSE		Excludes Utica College.
TEMPLE		Excludes Instructional Materials; Journalism; Health, Physical Education, Recreation, and Dance Libraries; and First Free Law Library.
	(4)	Microform figures reported previously incomplete for Law Library.
	(12.5)	Figure for 1976-77 incomplete for Law Library.
TEXAS		Includes LBJ School of Public Affairs Library and Humanities Research Center.
TEXAS A & M	(5)	Figure corrected. Previously only current periodical subscriptions were included.
	(12,14,17)	These figures were derived in a manner different from last year and reflect the expenditure for library materials only. Previous expenditure figures included travel, computer operations, etc.
UTAH	(16, 17)	Expenditure for the library automated circulation system which is a complete inhouse operation is included, as well as other automated systems.

VIRGINIA		Excludes Clinch Valley College.
	(12.5)	Error in figure reported in 1976-77 for expenditures for current periodicals: Correct amount = $868,677.
VIRGINIA POLYTECHNIC		Reels of microfilm - 1976-77 figure represents bibliographic volumes.
WASHINGTON	(6-8)	The total includes 40,630 items loaned from the University collections through PACFORNET-NORTH. The division between original and photocopy is not known, so does not appear in that breakdown.
	(9-11)	The total includes 1,146 items borrowed by PACFORNET-NORTH for University users. The division between original and photocopy is not known, so does not appear in that breakdown.
WASHINGTON STATE		Figures for Audio Visual Center included.
	(1)	1976-77 figure corrected.
WASHINGTON, ST. LOUIS	(4)	Excludes Medical School Library holdings of microforms.
WESTERN ONTARIO		Excludes libraries of 3 affiliated colleges, School of Library and Information Science, libraries operated within single university departments.
	(1)	Volumes held as of April 30, 1978
	(5)	1976-77 figures included only current periodical titles.
YALE	(1)	1976-77 figure corrected.
	(16,17)	The total reported for "other operating expenses" includes data processing time and equipment rentals involving cataloging and other technical processing, totalling $237,000. It excludes employees benefits $1,021,431; utility costs - $538,722; building and grounds maintenance, including insurance - $604,475; and indirect university assessment charges of $704,828.
	(17)	The total reported library expenditures, excluding capital costs and amortization, are $13,588,854.